



**DAHAI SOLAR**

**DAHAI SOLAR**

Add: Shandong, China  
 Web: [www.dahaisolar.com](http://www.dahaisolar.com)  
 Version No.: DH-EN-202603

**NEW ENERGY NEW WORLD**  
[www.dahaisolar.com](http://www.dahaisolar.com)





CHINA'S DISTRIBUTED  
SOLAR LEADER

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WORLD



# COMPANY PROFILE

DAHAI SOLAR

Since our founding in 2011, at Dahai Solar we hold a profound belief in the power of the sun to provide clean and sustainable energy to the world. That is why we have made it our mission to manufacture premium photovoltaic cells and green energy products for businesses and consumers alike. Our team of dedicated experts works tirelessly to ensure that every single one of our photovoltaic cells is crafted to perfection, using the most advanced PV technologies available today. They produce superior energy output with optimum efficiency, meaning more energy can be produced from a smaller number of solar panels. This in turn permits end users to save on installation and maintenance costs while at the same time reducing their carbon footprint.

We implement rigorous quality control testing at every stage of the manufacturing process to make sure every panel we produce can withstand even the harshest weather conditions.

Clean energy only works if you can use it dependably and efficiently. To help achieve this, Dahai also manufactures hybrid inverters and a wide range of batteries to the same rigorous standards as our solar panels, ensuring top-notch performance and durability for a steady supply of renewable power.

So whether you need a battery to power your home or a portable energy source to take anywhere you might need it, Dahai has a solution for you.

With warehouses located in strategic locations around the globe, Dahai provides an efficient sale-to-service ecosystem, and we back up each one of our products with an industry-leading warranty and on-site support.

You can rely on our modules to generate energy for your businesses without worrying about frequent replacements or repairs. As a global leader in photovoltaic cell manufacturing, we understand every customer is different, so we will take into account all the unique factors that are most important to you, like budgets and energy production targets, while striving to help you achieve a fast return on your investment.

Dahai believes that clean energy should be made as accessible as possible to everyone on the planet. That is why we offer highly competitive pricing while still providing industry-leading products in service. We understand that the transition to clean energy is crucial to our future, and that's why we're committed to energy sustainability.

So if you're looking for a reliable and sustainable clean energy solution, look no further than Dahai Solar. At Dahai, we provide customized services and one-stop, one-to-one system solutions tailored to your specific needs.

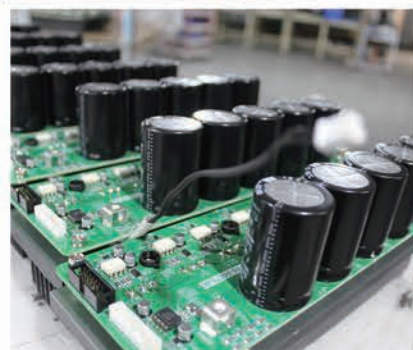
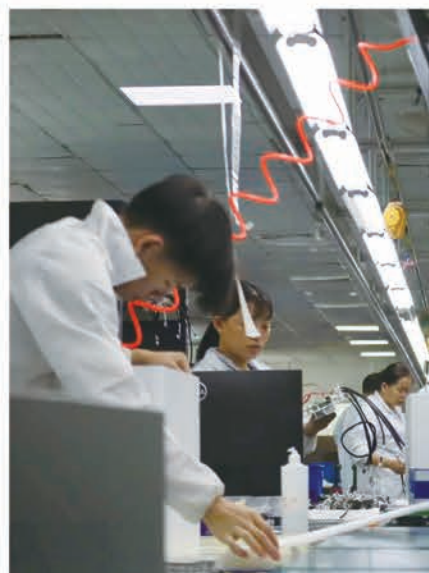
Contact us today to learn more about how our wide range of clean energy products can benefit you and our planet.

Dahai Solar. New energy for a new world.

## SOLAR PANELS BRAND CONTROLLED BY CENTRAL ENTERPRISES



A COMPREHENSIVE ENERGY SERVICE PROVIDER WITH SMART ENERGY MANAGEMENT AS ITS CORE









# PROJECT CASE

DAHAI SOLAR



1.1MW PV Power Plant Project of Louisvuitton Plant in Sibiu Province, Romania



Gansu Tianju power station project 49MW



Photovoltaic inverters in European photovoltaic parks project



Laiwu Jinneng power station project 13MW



Distributed project of Dahai Group factory

# QUALIFICATION

DAHAI SOLAR





## DAHAI SOLAR

|                                                                                                                                                                   |                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                  | Not Certified<br>NL101111                                                                                                                                                                                                                                                    |
| IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT<br>(ICES) OF POWER                                                                |                                                                                                                                                                                                                                                                              |
| <b>CB TEST CERTIFICATE</b>                                                                                                                                        |                                                                                                                                                                                                                                                                              |
| <b>Product</b>                                                                                                                                                    | Rechargeable Lithium Ion Phosphate Battery System                                                                                                                                                                                                                            |
| <b>Name and address of the applicant</b>                                                                                                                          | Shandong Dahui New Energy Development Co., Ltd.<br>Shandong Yucheng of Qi Road, 207300 (Shandong Developmental Zone,<br>Shandong, China)                                                                                                                                     |
| <b>Name and address of the manufacturer</b>                                                                                                                       | Far East Battery (Singapore) Co., Ltd.<br>No. 8, Raj Avenue, Geylang Road, Yiling City, 214257 West City<br>Singapore, China                                                                                                                                                 |
| <b>Name and address of the factory</b>                                                                                                                            | Far East Battery (Singapore) Co., Ltd.<br>No. 8, Raj Avenue, Geylang Road, Yiling City, 214257 West City<br>Singapore, China                                                                                                                                                 |
| <b>Other and not listed test persons, prepare their own</b>                                                                                                       | 7 Additional information on page 2                                                                                                                                                                                                                                           |
| <b>Drawings and principal characteristics</b>                                                                                                                     | <b>Product data</b><br>1. Model: 28A<br>28A 3 VDC for DWH100-51-28, 307 2 VDC for DWH100-51-30,<br>58A 3 VDC for DWH100-51-58, 912 3 VDC for DWH100-51-91,<br>51A 4 VDC for DWH100-51-48, 71A 8 VDC for DWH100-51-71,<br>81A 8 VDC for DWH100-51-81<br>Rated Capacity: 50 Ah |
| <b>Trademark / Brand of (any)</b>                                                                                                                                 | <b>D&amp;W</b><br>trademark                                                                                                                                                                                                                                                  |
| <b>Customer's Testing Facility (C/F) Design used</b>                                                                                                              | DWH100-51-28, DWH100-51-30, DWH100-51-48, DWH100-51-58,<br>DWH100-51-91, DWH100-51-71 and DWH100-51-81                                                                                                                                                                       |
| <b>Model / Type Ref.</b>                                                                                                                                          | 8 Additional information on page 2                                                                                                                                                                                                                                           |
| <b>Additional information (if necessary may also be reported on page 2)</b>                                                                                       | IEC DWH100-2017<br>912B15-30                                                                                                                                                                                                                                                 |
| <b>A sample of the product was tested and found to be in conformity with:</b><br><b>As shown in the Test Report Ref. No. which forms part of this Certificate</b> | This CB Test Certificate is issued by the International Conformity Body                                                                                                                                                                                                      |
| <b>ECMA Certificate Ref. V.</b><br>10001-1051<br>10001-1051<br>Netherlands                                                                                        |                                                                                                            |
| Date: 25/03/2023                                                                                                                                                  | Signature: C. Lin                                                                                                                                                                                                                                                            |

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# ATTESTATION OF CONFORMITY

Issued to: Shanghai Delta New Energy Development Co., Ltd  
 Room 504, Block 6 of Road, 37370 Guangdong Zhanjiang, Guangdong

For the product: Rechargeable Lithium-Ion Powerpack Battery System

Trade name: **DAHAI**

Type/Model: DH1512S-5A1S; DH1512S-5A1S; DH1512S-5A1S

Rating: Normal Voltage  
 614.4 VDC max (EUT) 614.4 VDC max (EUT) 718.8 VDC for DH1512S-3A1S  
 819.2 VDC for DH1512S-4A1S  
 Rated Capacity: 50.4Ah

Manufacturer by: Fan Star Battery (Guangdong) Co., Ltd.  
 No. 8, Xue Lan Road, Gaogang Town, Yantai City, 214207 Shandong Province, China

Requirements: EN 201 499-17 12.3.2.20-29  
 EN 60335-1 12.3.2.20-29  
 EN IEC 61060-6 12.019  
 EN 201 499-1 12.3.2.20-11  
 EN 30000-21  
 EN IEC 61060-4 12.021

Product Safety is not included in this review.

This Attestation is granted on account of an inspection by DEKRA, the results of which are laid down in a certificate for the 4403074.5001020394.

The attestation implies that the examined items are in accordance with the standards designated under the Radio Equipment Directive (RED 2014/53/EU).

The examination has been carried out on one single specimen or several specimens of the product by the manufacturer. The attestation does not include an assessment of the manufacturer's conformity of its production with the specimen tested by DEKRA or the responsibility of DEKRA.

The CE marking may be affixed on the product if all relevant and effective CE directives are complied with.

Amended: 27 October 2023

Number: 4403074.51A0C

DEKRA Testing and Certification (Shanghai) Ltd.  
 Guangzhou Branch

Wenjun Zhu  
 Manager

Single Declaration of the examination and signing number is allowed

DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou Branch  
 (Room 513, 5th Floor, Guangguo Building, Guangzhou, Guangdong, China)  
 Tel: +86 20 385 17 403 Fax: +86 20 385 17 404  
 Email: shanghai@dekra.com.cn

## DAHAI SOLAR

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# VERIFICATION OF COMPLIANCE

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|                                           |                                                                                                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>No.:</b>                               | 425230030619618PV                                                                                                                                      |
| <b>Applicant:</b>                         | Shandong Dahui New Energy Development Co., Ltd<br>Room 102, Road, West of Jiang Road, Dongying Economic<br>Development Zone, Dongying, Shandong, China |
| <b>Manufacturer:</b>                      | Shandong Dahui New Energy Development Co., Ltd<br>No.47-2 Road, West of Jiang Road, Dongying Economic<br>Development Zone, Dongying, Shandong, China   |
| <b>Product Name:</b>                      | inverter used in PV system                                                                                                                             |
| <b>Product Description:</b>               | inverter, inverter, inverter, inverter, inverter, inverter                                                                                             |
| <b>Model No.:</b>                         | DAHVI                                                                                                                                                  |
| <b>Trade Mark:</b>                        | DAHVI                                                                                                                                                  |
| <b>Rating:</b>                            | Refer to page 2                                                                                                                                        |
| <b>Intended Use:</b>                      | PV system                                                                                                                                              |
| <b>Protection against Electric Shock:</b> | Class I                                                                                                                                                |
| <b>Additional Information</b>             | IP 55                                                                                                                                                  |

**Hardware version:** V1.0.2

**Software version:** CPV 02P V1.0.2

**CPV ARM V1.0.2**

**Software signature of the product has been tested and found to be in conformity with:**

2023-03-01

**Test Standard:**

IEC 62109-1:2010

IEC 62109-2:2011

IEC 62109-3:2014

2023-03-01

**as shown in file:**

**Test Report Number:**

2023-03-01

**This Verification of Compliance has been granted to the applicant based on the results of tests, performed in Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product and by the verification of the certificate of the relevant specific standards.**

2023-03-01

**Client Co.:**

**Sample No.:**

**SGS-CSTC**

2023-03-01

**Signature:**

**Stamp:**

2023-03-01

**Consent of the certificate is granted to SGS-CSTC Standards Technical Services Co., Ltd. and we are not responsible after the date of issuance of the certificate. The certificate is the property of SGS-CSTC Standards Technical Services Co., Ltd. and it cannot be used for any other purpose without the written consent of SGS-CSTC Standards Technical Services Co., Ltd.**

2023-03-01

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| DEKRA Testing and Certification (Singapore) Pte. Ltd. (Incorporated in<br>Singapore)<br>8005 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908 |
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| DEKRA Testing and certification (Shanghai) Co., Ltd. (Shanghai Branch)<br>Room 101, 3000 Road, Shanghai, Shanghai, Shanghai, Shanghai, Shanghai<br>Tel: +86 21 5032 2000 Fax: +86 21 5031 0071 www.dekra-china.com |                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                          | Test report No. 4910274-04                                                          |
| <h2 style="text-align: center;">TEST REPORT</h2> <h3 style="text-align: center;">Electromagnetic Compatibility (EMC)</h3>                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |
| Identification of item tested<br><br>Trademark                                                                                                                                                                     | Rechargeable<br>Lithium-ion<br>Programmed Battery<br><br>                                                                                                                                                                                                                                             |                                                                                     |
| Model and/or type reference<br><br>Features                                                                                                                                                                        | DH41820-51-45, DH41820-51-50, DH41820-51-45,<br>DH41820-51-45, DH41820-51-45, DH41820-51-75,<br>DH41820-51-80<br>Nominal voltage<br>204.1 VDC for DH41820-51-25,<br>204.1 VDC for DH41820-51-30,<br>428.1 VDC for DH41820-51-45,<br>512.0 VDC for DH41820-51-45,<br>512.0 VDC for DH41820-51-45,<br>718.0 VDC for DH41820-51-75,<br>718.0 VDC for DH41820-51-80<br>Rated Capacity: 20.40 |                                                                                     |
| Applicant's name / address<br><br>Test method requested, standard                                                                                                                                                  | (Shanghai) Deka New Energy Development Co., Ltd.<br>27000 Road, Shanghai, Shanghai, Shanghai, Shanghai, Shanghai<br>EN 50565: 2017                                                                                                                                                                                                                                                       |                                                                                     |
| Verified Summary<br>Tested by (name & signature)                                                                                                                                                                   | COMPLIANCE<br>Jiao Liang                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |
| Approved by (name & signature)                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                       |                                                                                     |
| Date of issue                                                                                                                                                                                                      | 2022-10-27                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |
| Report template No.                                                                                                                                                                                                | EPRC_2017-05-07s                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     |

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| <br><b>MINISTERSTVO<br/>VNĚJŠÍCH VĚCÍ</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                         |
| <h1>Potvrzení o nezávadnosti</h1>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                         |
| <b>Žadatel:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Shandong Hengde New Energy Development Co., LTD<br>Shandong County company, development zone 10 Road north west of Huang River<br>China |
| <b>Výrobek:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Přenosnostní a bateriový zdroj                                                                                                          |
| <b>Model:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | typlo<br>typlo<br>typlo<br>typlo                                                                                                        |
| <p>Nařízení pro Oficiální posouzení přístroje v souladu s 23(1) a) pro monitorování a signování jako je nezávadnost vůči elektromagnetické kompatibilitě</p> <p><b>Právní předpisy:</b> zpráva o posouzení, posudek a pravidla pro posouzení přístroje v souladu s 23(1) a) a 23(2) a) a 23(3) a) a 23(4) a) a 23(5) a) a 23(6) a) a 23(7) a) a 23(8) a) a 23(9) a) a 23(10) a) a 23(11) a) a 23(12) a) a 23(13) a) a 23(14) a) a 23(15) a) a 23(16) a) a 23(17) a) a 23(18) a) a 23(19) a) a 23(20) a) a 23(21) a) a 23(22) a) a 23(23) a) a 23(24) a) a 23(25) a) a 23(26) a) a 23(27) a) a 23(28) a) a 23(29) a) a 23(30) a) a 23(31) a) a 23(32) a) a 23(33) a) a 23(34) a) a 23(35) a) a 23(36) a) a 23(37) a) a 23(38) a) a 23(39) a) a 23(40) a) a 23(41) a) a 23(42) a) a 23(43) a) a 23(44) a) a 23(45) a) a 23(46) a) a 23(47) a) a 23(48) a) a 23(49) a) a 23(50) a) a 23(51) a) a 23(52) a) a 23(53) a) a 23(54) a) a 23(55) a) a 23(56) a) a 23(57) a) a 23(58) a) a 23(59) a) a 23(60) a) a 23(61) a) a 23(62) a) a 23(63) a) a 23(64) a) a 23(65) a) a 23(66) a) a 23(67) a) a 23(68) a) a 23(69) a) a 23(70) a) a 23(71) a) a 23(72) a) a 23(73) a) a 23(74) a) a 23(75) a) a 23(76) a) a 23(77) a) a 23(78) a) a 23(79) a) a 23(80) a) a 23(81) a) a 23(82) a) a 23(83) a) a 23(84) a) a 23(85) a) a 23(86) a) a 23(87) a) a 23(88) a) a 23(89) a) a 23(90) a) a 23(91) a) a 23(92) a) a 23(93) a) a 23(94) a) a 23(95) a) a 23(96) a) a 23(97) a) a 23(98) a) a 23(99) a) a 23(100) a) a 23(101) a) a 23(102) a) a 23(103) a) a 23(104) a) a 23(105) a) a 23(106) a) a 23(107) a) a 23(108) a) a 23(109) a) a 23(110) a) a 23(111) a) a 23(112) a) a 23(113) a) a 23(114) a) a 23(115) a) a 23(116) a) a 23(117) a) a 23(118) a) a 23(119) a) a 23(120) a) a 23(121) a) a 23(122) a) a 23(123) a) a 23(124) a) a 23(125) a) a 23(126) a) a 23(127) a) a 23(128) a) a 23(129) a) a 23(130) a) a 23(131) a) a 23(132) a) a 23(133) a) a 23(134) a) a 23(135) a) a 23(136) a) a 23(137) a) a 23(138) a) a 23(139) a) a 23(140) a) a 23(141) a) a 23(142) a) a 23(143) a) a 23(144) a) a 23(145) a) a 23(146) a) a 23(147) a) a 23(148) a) a 23(149) a) a 23(150) a) a 23(151) a) a 23(152) a) a 23(153) a) a 23(154) a) a 23(155) a) a 23(156) a) a 23(157) a) a 23(158) a) a 23(159) a) a 23(160) a) a 23(161) a) a 23(162) a) a 23(163) a) a 23(164) a) a 23(165) a) a 23(166) a) a 23(167) a) a 23(168) a) a 23(169) a) a 23(170) a) a 23(171) a) a 23(172) a) a 23(173) a) a 23(174) a) a 23(175) a) a 23(176) a) a 23(177) a) a 23(178) a) a 23(179) a) a 23(180) a) a 23(181) a) a 23(182) a) a 23(183) a) a 23(184) a) a 23(185) a) a 23(186) a) a 23(187) a) a 23(188) a) a 23(189) a) a 23(190) a) a 23(191) a) a 23(192) a) a 23(193) a) a 23(194) a) a 23(195) a) a 23(196) a) a 23(197) a) a 23(198) a) a 23(199) a) a 23(200) a) a 23(201) a) a 23(202) a) a 23(203) a) a 23(204) a) a 23(205) a) a 23(206) a) a 23(207) a) a 23(208) a) a 23(209) a) a 23(210) a) a 23(211) a) a 23(212) a) a 23(213) a) a 23(214) a) a 23(215) a) a 23(216) a) a 23(217) a) a 23(218) a) a 23(219) a) a 23(220) a) a 23(221) a) a 23(222) a) a 23(223) a) a 23(224) a) a 23(225) a) a 23(226) a) a 23(227) a) a 23(228) a) a 23(229) a) a 23(230) a) a 23(231) a) a 23(232) a) a 23(233) a) a 23(234) a) a 23(235) a) a 23(236) a) a 23(237) a) a 23(238) a) a 23(239) a) a 23(240) a) a 23(241) a) a 23(242) a) a 23(243) a) a 23(244) a) a 23(245) a) a 23(246) a) a 23(247) a) a 23(248) a) a 23(249) a) a 23(250) a) a 23(251) a) a 23(252) a) a 23(253) a) a 23(254) a) a 23(255) a) a 23(256) a) a 23(257) a) a 23(258) a) a 23(259) a) a 23(260) a) a 23(261) a) a 23(262) a) a 23(263) a) a 23(264) a) a 23(265) a) a 23(266) a) a 23(267) a) a 23(268) a) a 23(269) a) a 23(270) a) a 23(271) a) a 23(272) a) a 23(273) a) a 23(274) a) a 23(275) a) a 23(276) a) a 23(277) a) a 23(278) a) a 23(279) a) a 23(280) a) a 23(281) a) a 23(282) a) a 23(283) a) a 23(284) a) a 23(285) a) a 23(286) a) a 23(287) a) a 23(288) a) a 23(289) a) a 23(290) a) a 23(291) a) a 23(292) a) a 23(293) a) a 23(294) a) a 23(295) a) a 23(296) a) a 23(297) a) a 23(298) a) a 23(299) a) a 23(300) a) a 23(301) a) a 23(302) a) a 23(303) a) a 23(304) a) a 23(305) a) a 23(306) a) a 23(307) a) a 23(308) a) a 23(309) a) a 23(310) a) a 23(311) a) a 23(312) a) a 23(313) a) a 23(314) a) a 23(315) a) a 23(316) a) a 23(317) a) a 23(318) a) a 23(319) a) a 23(320) a) a 23(321) a) a 23(322) a) a 23(323) a) a 23(324) a) a 23(325) a) a 23(326) a) a 23(327) a) a 23(328) a) a 23(329) a) a 23(330) a) a 23(331) a) a 23(332) a) a 23(333) a) a 23(334) a) a 23(335) a) a 23(336) a) a 23(337) a) a 23(338) a) a 23(339) a) a 23(340) a) a 23(341) a) a 23(342) a) a 23(343) a) a 23(344) a) a 23(345) a) a 23(346) a) a 23(347) a) a </p> |                                                                                                                                         |

[illegible]



# DHM66D50-TP

## 695-720W

High performance transparent N-type double glass bifacial solar module

30 YEAR LINEARITY POWER OUTPUT WARRANTY  
25 YEARS OF EXCELLENT PRODUCTS MATERIAL AND PROCESS WARRANTY

ISO 9001: 2015 ISO 14001:2015  
ISO 45001:2018 TUV CE CQC  
IEC 61215, IEC 61730

### MECHANICAL PROPERTIES

|                            |                                               |
|----------------------------|-----------------------------------------------|
| Cell Type                  | 210 N-type                                    |
| Component Weight           | 38kg                                          |
| Component Size             | 2384x1303x30mm                                |
| Number of Cells            | 132(6x22)                                     |
| Cable Cross-Sectional Area | 4mm <sup>2</sup>                              |
| Junction Box               | IP68, 3 diodes                                |
| Connector                  | MC4-EVO2                                      |
| Packaging Information      | 36 pieces/pallet<br>648 pieces /40 'container |

### WORKING PARAMETERS

|                             |              |
|-----------------------------|--------------|
| Maximum System Voltage      | 1500V (TUV)  |
| Operating Temperature       | -40°C~+ 85°C |
| Maximum Fuse Current Rating | 35A          |
| Application Level           | ClassA       |

### ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

| Model                                  | DHM66D50-695/TP | DHM66D50-700/TP | DHM66D50-705/TP | DHM66D50-710/TP | DHM66D50-715/TP | DHM66D50-720/TP |
|----------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Maximum Power (W)                      | 695             | 700             | 705             | 710             | 715             | 720             |
| Voltage at Maximum Power Point (Vmp/V) | 40.25           | 40.50           | 40.75           | 41.00           | 41.25           | 41.50           |
| Current at Maximum Power Point (Imp/A) | 17.27           | 17.28           | 17.30           | 17.32           | 17.33           | 17.35           |
| Open Circuit Voltage (Voc/V)           | 48.20           | 48.50           | 48.80           | 49.10           | 49.40           | 49.70           |
| Short Circuit Current (Isc/A)          | 18.31           | 18.34           | 18.37           | 18.40           | 18.45           | 18.51           |
| Component Efficiency [%]               | 22.37%          | 22.53%          | 22.70%          | 22.86%          | 23.02%          | 23.18%          |
| Power Tolerance (W)                    | 0~+5            |                 |                 |                 |                 |                 |
| Temperature Coefficient of Pmax        | -0.29%/°C       |                 |                 |                 |                 |                 |
| Temperature Coefficient of Voc         | -0.25%/°C       |                 |                 |                 |                 |                 |
| Temperature Coefficient of Isc         | 0.044%/°C       |                 |                 |                 |                 |                 |

Standard Test Environment Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, spectrum AM1.5

# DHM78D30-TP

## 635-660W

High performance transparent N-type double glass bifacial solar module

30 YEAR LINEARITY POWER OUTPUT WARRANTY  
25 YEARS OF EXCELLENT PRODUCTS MATERIAL AND PROCESS WARRANTY

ISO 9001: 2015 ISO 14001:2015  
ISO 45001:2018 TUV CE CQC  
IEC 61215, IEC 61730

### MECHANICAL PROPERTIES

|                            |                                               |
|----------------------------|-----------------------------------------------|
| Cell Type                  | Monocrystalline-N-type                        |
| Component Weight           | 35.5kg                                        |
| Component Size             | 2465x1134x30mm                                |
| Number of Cells            | 156(6x26)                                     |
| Cable Cross-Sectional Area | 4mm <sup>2</sup>                              |
| Junction Box               | IP68, 3 diodes                                |
| Connector                  | MC4-EVO2                                      |
| Packaging Information      | 36 pieces/pallet<br>576 pieces /40 'container |

### WORKING PARAMETERS

|                             |              |
|-----------------------------|--------------|
| Maximum System Voltage      | 1500V (TUV)  |
| Operating Temperature       | -40°C~+ 85°C |
| Maximum Fuse Current Rating | 30A          |
| Application Level           | ClassA       |

### ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

| Model                                    | DHM78D30-635/TP | DHM78D30-640/TP | DHM78D30-645/TP | DHM78D30-650/TP | DHM78D30-655/TP | DHM78D30-660/TP |
|------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Maximum Power (Pmax) [W]                 | 635             | 640             | 645             | 650             | 655             | 660             |
| Voltage at Maximum Power Point (VMP) [V] | 46.87           | 47.05           | 47.25           | 47.45           | 47.65           | 47.85           |
| Current at Maximum Power Point (Imp) [A] | 13.55           | 13.60           | 13.65           | 13.70           | 13.75           | 13.79           |
| Open Circuit Voltage (Voc) [V]           | 56.60           | 56.92           | 57.17           | 57.42           | 57.62           | 57.83           |
| Short Circuit Current (Isc) [A]          | 14.24           | 14.30           | 14.36           | 14.42           | 14.49           | 14.55           |
| Component Efficiency [%]                 | 22.72%          | 22.90%          | 23.07%          | 23.25%          | 23.43%          | 23.61%          |
| Power Tolerance                          | 0~+5            |                 |                 |                 |                 |                 |
| Temperature Coefficient of Pmax          | -0.29%/°C       |                 |                 |                 |                 |                 |
| Temperature Coefficient of Voc           | -0.25%/°C       |                 |                 |                 |                 |                 |
| Temperature Coefficient of Isc           | 0.044%/°C       |                 |                 |                 |                 |                 |

Standard Test Environment Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, spectrum AM1.5



# DHM66D60-TP

## 610-635W

Double glass bifacial solar module

30 YEARS 30 YEAR LINEARITY POWER OUTPUT WARRANTY

25 YEARS 25 YEARS OF EXCELLENT PRODUCTS MATERIAL AND PROCESS WARRANTY

CE TUV UK CA MCS ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018 TUV CE CQC IEC 61215, IEC 61730

### MECHANICAL PROPERTIES

|                            |                                               |
|----------------------------|-----------------------------------------------|
| Cell Type                  | 210R+N-type                                   |
| Component Weight           | 33kg                                          |
| Component Size             | 2382x1134x30mm                                |
| Number of Cells            | 132(6x22)                                     |
| Cable Cross-Sectional Area | 4mm <sup>2</sup>                              |
| Junction Box               | IP68, 3 diodes                                |
| Connector                  | MC4-EVO2                                      |
| Packaging Information      | 36 pieces/pallet<br>720 pieces /40' container |

### WORKING PARAMETERS

|                             |              |
|-----------------------------|--------------|
| Maximum System Voltage      | 1500V (TUV)  |
| Operating Temperature       | -40°C~+ 85°C |
| Maximum Fuse Current Rating | 30A          |
| Application Level           | ClassA       |

### ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

| Model                                    | DHM66D60-610/TP | DHM66D60-615/TP | DHM66D60-620/TP | DHM66D60-625/TP | DHM66D60-630/TP | DHM66D60-635/TP |
|------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Maximum Power (Pmax) [W]                 | 610             | 615             | 620             | 625             | 630             | 635             |
| Voltage at Maximum Power Point (Vmp) [V] | 40.70           | 40.90           | 41.10           | 41.30           | 41.50           | 41.70           |
| Current at Maximum Power Point (Imp) [A] | 14.99           | 15.04           | 15.09           | 15.13           | 15.18           | 15.23           |
| Open Circuit Voltage (Voc) [V]           | 48.90           | 49.20           | 49.40           | 49.60           | 49.80           | 50.00           |
| Short Circuit Current (Isc) [A]          | 15.80           | 15.86           | 15.92           | 15.98           | 16.04           | 16.10           |
| Component Efficiency [%]                 | 22.58%          | 22.77%          | 22.95%          | 23.14%          | 23.32%          | 23.51%          |
| Power Tolerance                          | 0~+5            |                 |                 |                 |                 |                 |
| Temperature Coefficient of Pmax          | -0.29%/°C       |                 |                 |                 |                 |                 |
| Temperature Coefficient of Voc           | -0.25%/°C       |                 |                 |                 |                 |                 |
| Temperature Coefficient of Isc           | 0.044%/°C       |                 |                 |                 |                 |                 |

Standard Test Environment Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, spectrum AM1.5

# DHM72D30-TP

## 585-610W

High performance transparent N-Type double glass bifacial solar module

30 YEARS 30 YEAR LINEARITY POWER OUTPUT WARRANTY

25 YEARS 25 YEARS OF EXCELLENT PRODUCTS MATERIAL AND PROCESS WARRANTY

CE TUV UK CA MCS ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018 TUV CE CQC IEC 61215, IEC 61730

### MECHANICAL PROPERTIES

|                            |                                               |
|----------------------------|-----------------------------------------------|
| Cell Type                  | Monocrystalline-N-type                        |
| Component Weight           | 31kg                                          |
| Component Size             | 2279x1134x30mm                                |
| Number of Cells            | 144(6x24)                                     |
| Cable Cross-Sectional Area | 4mm <sup>2</sup>                              |
| Junction Box               | IP68, 3 diodes                                |
| Connector                  | MC4-EVO2                                      |
| Packaging Information      | 36 pieces/pallet<br>720 pieces /40' container |

### WORKING PARAMETERS

|                             |              |
|-----------------------------|--------------|
| Maximum System Voltage      | 1500V (TUV)  |
| Operating Temperature       | -40°C~+ 85°C |
| Maximum Fuse Current Rating | 30A          |
| Application Level           | ClassA       |

### ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

| Model                                    | DHM72D30-585/TP | DHM72D30-590/TP | DHM72D30-595/TP | DHM72D30-600/TP | DHM72D30-605/TP | DHM72D30-610/TP |
|------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Maximum Power (Pmax) [W]                 | 585             | 590             | 595             | 600             | 605             | 610             |
| Voltage at Maximum Power Point (Vmp) [V] | 44.75           | 45.05           | 45.25           | 45.45           | 45.65           | 45.85           |
| Current at Maximum Power Point (Imp) [A] | 13.07           | 13.10           | 13.15           | 13.20           | 13.25           | 13.30           |
| Open Circuit Voltage (Voc) [V]           | 52.30           | 52.50           | 52.70           | 52.90           | 53.10           | 53.30           |
| Short Circuit Current (Isc) [A]          | 14.37           | 14.41           | 14.47           | 14.53           | 14.59           | 14.65           |
| Component Efficiency [%]                 | 22.64%          | 22.83%          | 23.02%          | 23.22%          | 23.41%          | 23.60%          |
| Power Tolerance                          | 0~+5            |                 |                 |                 |                 |                 |
| Temperature Coefficient of Pmax          | -0.29%/°C       |                 |                 |                 |                 |                 |
| Temperature Coefficient of Voc           | -0.25%/°C       |                 |                 |                 |                 |                 |
| Temperature Coefficient of Isc           | 0.044%/°C       |                 |                 |                 |                 |                 |

Standard Test Environment Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, spectrum AM1.5



# DHM60D30-TP

## 485-510W

High performance transparent N-type double glass bifacial solar module

30 YEARS 30 YEAR LINEARITY POWER OUTPUT WARRANTY

25 YEARS 25 YEARS OF EXCELLENT PRODUCTS MATERIAL AND PROCESS WARRANTY

CE TUV UK CA MCS ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 TUV CE CQC IEC 61215, IEC 61730

| MECHANICAL PROPERTIES       |                                               |
|-----------------------------|-----------------------------------------------|
| Cell Type                   | Monocrystalline-N-type                        |
| Component Weight            | 26kg                                          |
| Component Size              | 1908x1134x30mm                                |
| Number of Cells             | 120(6x20)                                     |
| Cable Cross-Sectional Area  | 4mm <sup>2</sup>                              |
| Junction Box                | IP68, 3 diodes                                |
| Connector                   | MC4-EVO2                                      |
| Packaging Information       | 36 pieces/pallet<br>864 pieces /40 'container |
| WORKING PARAMETERS          |                                               |
| Maximum System Voltage      | 1500V (TUV)                                   |
| Operating Temperature       | -40°C~+ 85°C                                  |
| Maximum Fuse Current Rating | 30A                                           |
| Application Level           | ClassA                                        |

| ELECTRICAL PERFORMANCE PARAMETERS UNDER STC |                                                                        |                 |                 |                 |                 |                 |
|---------------------------------------------|------------------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Model                                       | DHM60D30-485/TP                                                        | DHM60D30-490/TP | DHM60D30-495/TP | DHM60D30-500/TP | DHM60D30-505/TP | DHM60D30-510/TP |
| Maximum Power (Pmax/W)                      | 485                                                                    | 490             | 495             | 500             | 505             | 510             |
| Voltage at Maximum Power Point (Vmp/V)      | 38.45                                                                  | 38.75           | 38.95           | 39.15           | 39.35           | 39.55           |
| Current at Maximum Power Point (Imp/A)      | 12.61                                                                  | 12.65           | 12.71           | 12.77           | 12.83           | 12.90           |
| Open Circuit Voltage (Voc/V)                | 42.90                                                                  | 43.10           | 43.30           | 43.50           | 43.70           | 43.90           |
| Short Circuit Current (Isc/A)               | 13.30                                                                  | 13.35           | 13.41           | 13.47           | 13.53           | 13.59           |
| Component Efficiency [%]                    | 22.42%                                                                 | 22.65%          | 22.88%          | 23.11%          | 23.34%          | 23.57%          |
| Power Tolerance (W)                         | 0~+5                                                                   |                 |                 |                 |                 |                 |
| Temperature Coefficient of Pmax             | -0.29%/°C                                                              |                 |                 |                 |                 |                 |
| Temperature Coefficient of Voc              | -0.25%/°C                                                              |                 |                 |                 |                 |                 |
| Temperature Coefficient of Isc              | 0.044%/°C                                                              |                 |                 |                 |                 |                 |
| Standard Test Environment                   | Irradiance 1000W/m <sup>2</sup> ,cell temperature 25°C, spectrum AM1.5 |                 |                 |                 |                 |                 |

# DHM54D35-TP

## 435-460W

High performance N-Type double glass bifacial solar module

30 YEARS 30 YEAR LINEARITY POWER OUTPUT WARRANTY

25 YEARS 25 YEARS OF EXCELLENT PRODUCTS MATERIAL AND PROCESS WARRANTY

CE TUV UK CA MCS ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 TUV CE CQC IEC 61215, IEC 61730

| MECHANICAL PROPERTIES       |                                     |
|-----------------------------|-------------------------------------|
| Cell Type                   | Monocrystalline-N-type              |
| Component Weight            | 22kg                                |
| Component Size              | 1762x1134x30mm                      |
| Number of Cells             | 108(6x18)                           |
| Cable Cross-Sectional Area  | 4mm <sup>2</sup>                    |
| Junction Box                | IP68, 3 diodes                      |
| Connector                   | MC4-EVO2                            |
| Packaging Information       | 36 pcs/pallet<br>936 pcs per 40 'HC |
| WORKING PARAMETERS          |                                     |
| Maximum System Voltage      | 1500V (TUV)                         |
| Operating Temperature       | -40°C~+ 85°C                        |
| Maximum Fuse Current Rating | 25A                                 |
| Application Level           | ClassA                              |

| ELECTRICAL PERFORMANCE PARAMETERS UNDER STC |                                                                        |                 |                 |                 |                 |                 |
|---------------------------------------------|------------------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Model                                       | DHM54D35-435/TP                                                        | DHM54D35-440/TP | DHM54D35-445/TP | DHM54D35-450/TP | DHM54D35-455/TP | DHM54D35-460/TP |
| Maximum Power (Pmax/W)                      | 435                                                                    | 440             | 445             | 450             | 455             | 460             |
| Voltage at Maximum Power Point (Vmp/V)      | 32.55                                                                  | 32.75           | 32.95           | 33.15           | 33.45           | 33.75           |
| Current at Maximum Power Point (Imp/A)      | 13.36                                                                  | 13.44           | 13.51           | 13.57           | 13.60           | 13.63           |
| Open Circuit Voltage (Voc/V)                | 37.75                                                                  | 37.95           | 38.15           | 38.35           | 38.65           | 38.95           |
| Short Circuit Current (Isc/A)               | 14.08                                                                  | 14.15           | 14.21           | 14.28           | 14.35           | 14.41           |
| Component Efficiency [%]                    | 21.77%                                                                 | 22.02%          | 22.27%          | 22.52%          | 22.77%          | 23.02%          |
| Power Tolerance (W)                         | 0~+5                                                                   |                 |                 |                 |                 |                 |
| Temperature Coefficient of Pmax             | -0.29%/°C                                                              |                 |                 |                 |                 |                 |
| Temperature Coefficient of Voc              | -0.25%/°C                                                              |                 |                 |                 |                 |                 |
| Temperature Coefficient of Isc              | 0.044%/°C                                                              |                 |                 |                 |                 |                 |
| Standard Test Environment                   | Irradiance 1000W/m <sup>2</sup> ,cell temperature 25°C, spectrum AM1.5 |                 |                 |                 |                 |                 |





## Single Phase Hybrid Inverter

HyS-3/3.6/4/4.6/5/6/8K



## Single Phase Hybrid Inverter-Pro

HyS-3/3.6/5/6K-E

| Model                                | HyS3K                                     | HyS3.6K | HyS4K | HyS4.6K | HyS5K | HyS6K | HyS8K |
|--------------------------------------|-------------------------------------------|---------|-------|---------|-------|-------|-------|
| Battery Input Data                   |                                           |         |       |         |       |       |       |
| Battery Type                         | Lithium or lead acid battery              |         |       |         |       |       |       |
| Rated Battery Voltage(V)             | 48                                        |         |       |         |       |       |       |
| Maximum Charging Voltage(V)          | ≤60 (Configurable)                        |         |       |         |       |       |       |
| Maximum Charge/Discharge Current(A)  | 75                                        | 90      | 100   | 110     | 120   | 120   | 190   |
| PV Input Data                        |                                           |         |       |         |       |       |       |
| Maximum DC Input Power(kw)           | 6                                         | 7.2     | 8     | 9.2     | 10    | 12    | 16    |
| Maximum DC Input Voltage(V)          | 500                                       |         |       |         |       |       |       |
| MPPT Operating Voltage Range(V)      | 150~450                                   |         |       |         |       |       |       |
| Starting Voltage(V)                  | 125                                       |         |       |         |       |       |       |
| Maximum Input Current(A)             | 18                                        | 18/18   | 18/18 | 18/18   | 18/18 | 18/18 | 30/18 |
| MPPT Number                          | 1                                         | 2       | 2     | 2       | 2     | 2     | 2     |
| AC Output Parameters (On-Grid)       |                                           |         |       |         |       |       |       |
| Maximum Output Apparent Power (KW)   | 3.3                                       | 3.96    | 4.4   | 5       | 5.5   | 6     | 8.8   |
| Rated Output Voltage(V)              | 220/230                                   |         |       |         |       |       |       |
| Rated Output Frequency(Hz)           | 50/60HZ                                   |         |       |         |       |       |       |
| Max. Output Current(A)               | 15                                        | 18      | 20    | 22      | 25    | 27    | 40    |
| Output Power Factor                  | ~1 (-0.8 leading~+0.8 lagging)            |         |       |         |       |       |       |
| AC Output Parameters(Off-Grid)       |                                           |         |       |         |       |       |       |
| Rated Output Apparent Power(VA)      | 3000                                      | 3600    | 4000  | 4600    | 5000  | 6000  | 8000  |
| Maximum Output Apparent Power(VA)    | >200%,15sec                               |         |       |         |       |       |       |
| Rated Output Voltage(V)              | 220/230                                   |         |       |         |       |       |       |
| Rated Output Frequency(Hz)           | 50/60(±0.2%)                              |         |       |         |       |       |       |
| Max. Output Current(A)               | 14                                        | 16      | 18    | 21      | 23    | 27    | 40    |
| Efficiency                           |                                           |         |       |         |       |       |       |
| Max. Efficiency(PV)                  | 98%                                       |         |       |         |       |       |       |
| Max. Efficiency(battery)             | 94.5%                                     |         |       |         |       |       |       |
| Europe. Efficiency                   | 97.5%                                     |         |       |         |       |       |       |
| Protection                           |                                           |         |       |         |       |       |       |
| PV Input Reverse Polarity Protection | Yes                                       |         |       |         |       |       |       |
| PV Insulation Resistance Detection   | Yes                                       |         |       |         |       |       |       |
| Residual Current Detection           | Yes                                       |         |       |         |       |       |       |
| Output Over Current Protection       | Yes                                       |         |       |         |       |       |       |
| Output Short Circuit Protection      | Yes                                       |         |       |         |       |       |       |
| Output Over Voltage Protection       | Yes                                       |         |       |         |       |       |       |
| Basic Data                           |                                           |         |       |         |       |       |       |
| Operation Temperature (°C)           | -25~60                                    |         |       |         |       |       |       |
| Storage Temperature (°C)             | -30~65                                    |         |       |         |       |       |       |
| Relative Humidity                    | 0~95%                                     |         |       |         |       |       |       |
| Working Altitude (m)                 | ≤4000m (frequency-decreasing above 2000m) |         |       |         |       |       |       |
| Cooling                              | Intelligent forced air cooling            |         |       |         |       |       |       |
| Noise (db)                           | <55                                       |         |       |         |       |       |       |
| Weight (Kg)                          | 21.5                                      |         |       |         |       |       |       |
| Size (Width x Height x Depth) (mm)   | 427*554*198                               |         |       |         |       |       |       |
| Protection Class                     | IP66                                      |         |       |         |       |       |       |
| Topology                             | HF isolation (Battery side)               |         |       |         |       |       |       |

| Model                                        | HyS3K-E                                                                                                                                                                                                                                                                        | HyS3.6K-E | HyS5K-E   | HyS6K-E   |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|
| Battery Input Parameters                     |                                                                                                                                                                                                                                                                                |           |           |           |
| Battery Type                                 | Lithium or Lead-acid Battery                                                                                                                                                                                                                                                   |           |           |           |
| Battery Voltage Range (V)                    | 40~60                                                                                                                                                                                                                                                                          |           |           |           |
| Max. Charging Current (A)                    | 70                                                                                                                                                                                                                                                                             | 90        | 120       | 125       |
| Max. Discharging Current (A)                 | 70                                                                                                                                                                                                                                                                             | 90        | 120       | 135       |
| Charging Strategy for Lithium Battery        | Self-adaptive Battery Management System                                                                                                                                                                                                                                        |           |           |           |
| Number of Battery Inputs                     | 1                                                                                                                                                                                                                                                                              |           |           |           |
| PV Input Parameters                          |                                                                                                                                                                                                                                                                                |           |           |           |
| Max. DC Input Power (W)                      | 6000W                                                                                                                                                                                                                                                                          | 7200W     | 10000W    | 12000W    |
| Max. DC Input Voltage (V)                    | 500V                                                                                                                                                                                                                                                                           |           |           |           |
| Operating Voltage Range (V)                  | 150~450V                                                                                                                                                                                                                                                                       |           |           |           |
| Start-up Voltage (V)                         | 125V                                                                                                                                                                                                                                                                           |           |           |           |
| Max. Input Current (A)                       | 20A                                                                                                                                                                                                                                                                            | 20/20A    |           |           |
| Number of MPPT Trackers                      | 1                                                                                                                                                                                                                                                                              | 1+1       |           |           |
| AC Input / Output Parameters                 |                                                                                                                                                                                                                                                                                |           |           |           |
| Rated AC Input/Output Active Power (W)       | 3000                                                                                                                                                                                                                                                                           | 3600      | 5000      | 6000      |
| Max. AC Input/Output Apparent Power (VA)     | 3300                                                                                                                                                                                                                                                                           | 3960      | 5500      | 6600      |
| Peak Power (Off-grid) (W)                    | >200%,15sec                                                                                                                                                                                                                                                                    |           |           |           |
| Rated AC Input/Output Current (A)            | 13.7/13.1                                                                                                                                                                                                                                                                      | 16.4/15.7 | 22.8/21.8 | 27.3/26.1 |
| Max. AC Input/Output Current (A)             | 15/14.4                                                                                                                                                                                                                                                                        | 18/17.3   | 25/24     | 30/28.7   |
| Max. Continuous AC Bypass (Grid to Load) (A) | 35                                                                                                                                                                                                                                                                             | 35        | 35        | 40        |
| Rated AC Input/Output Voltage Range (V)      | 220/230V, 0.85Un~1.1Un                                                                                                                                                                                                                                                         |           |           |           |
| Grid Connection Type                         | L+N+PE                                                                                                                                                                                                                                                                         |           |           |           |
| Rated Input/Output Grid Frequency/Range      | 50Hz/45Hz-55Hz 60Hz/55Hz-65Hz                                                                                                                                                                                                                                                  |           |           |           |
| Power Factor Adjustment Range                | 1(0.8 leading – 0.8 lagging)                                                                                                                                                                                                                                                   |           |           |           |
| Total Harmonic Distortion (THDi)             | <3%(of nominal power)                                                                                                                                                                                                                                                          |           |           |           |
| DC Injection Current                         | <0.5%In                                                                                                                                                                                                                                                                        |           |           |           |
| Efficiency                                   |                                                                                                                                                                                                                                                                                |           |           |           |
| Max. Efficiency                              | 97.6%                                                                                                                                                                                                                                                                          |           |           |           |
| European Efficiency                          | 97%                                                                                                                                                                                                                                                                            |           |           |           |
| MPPT Tracking Efficiency                     | >99%                                                                                                                                                                                                                                                                           |           |           |           |
| Equipment Protection                         |                                                                                                                                                                                                                                                                                |           |           |           |
| Integrated Protections                       | DC Reverse Polarity, AC Output Overcurrent, Over-temperature, AC Output Overvoltage, Short Circuit, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI, optional), Anti-islanding Protection, DC Switch, Insulation Resistance Detection, Residual Current Detection |           |           |           |
| Surge Protection Class                       | Type I (DC), Type II (AC)                                                                                                                                                                                                                                                      |           |           |           |
| Interface                                    |                                                                                                                                                                                                                                                                                |           |           |           |
| Communication Interfaces                     | RS485/CAN                                                                                                                                                                                                                                                                      |           |           |           |
| Monitoring modes                             | GPRS / WiFi / Bluetooth / 4G / LAN (optional)                                                                                                                                                                                                                                  |           |           |           |
| General Parameters                           |                                                                                                                                                                                                                                                                                |           |           |           |
| Operating Temperature (°C)                   | -40°C~+60°C(derating above 45°C)                                                                                                                                                                                                                                               |           |           |           |
| Storage Temperature (°C)                     | -30~65°C                                                                                                                                                                                                                                                                       |           |           |           |
| Relative Humidity                            | 0~100%                                                                                                                                                                                                                                                                         |           |           |           |
| Operating Altitude (m)                       | ≤4000m (derating above 2000m)                                                                                                                                                                                                                                                  |           |           |           |
| Cooling Method                               | Intelligent Forced Air Cooling                                                                                                                                                                                                                                                 |           |           |           |
| Noise (dB)                                   | <50dB                                                                                                                                                                                                                                                                          |           |           |           |
| Weight (kg)                                  | 13kg                                                                                                                                                                                                                                                                           |           |           |           |
| Dimensions                                   | 338*480*205mm                                                                                                                                                                                                                                                                  |           |           |           |
| IP Rating                                    | IP66                                                                                                                                                                                                                                                                           |           |           |           |
| Topology                                     | Non-Isolated                                                                                                                                                                                                                                                                   |           |           |           |
| Safety / EMC Certification                   | IEC62109, IEC61000, IS16169 & IS16221(BIS)                                                                                                                                                                                                                                     |           |           |           |
| Grid Compliance                              | IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140                                                                                                                                                                                  |           |           |           |
| Other Certifications                         | IEC61683, IEC62116, EN50530, IEC60068                                                                                                                                                                                                                                          |           |           |           |





## Three Phase Low Voltage Hybrid Inverter

HyL-5/6/7/8K



## Three Phase Low Voltage Hybrid Inverter

HyL-10/12/15K



| Model                                | HyL5K                                                                                         | HyL6K  | HyL7K  | HyL8K  |
|--------------------------------------|-----------------------------------------------------------------------------------------------|--------|--------|--------|
| Battery input data                   |                                                                                               |        |        |        |
| Battery Type                         | Lithium or lead acid battery                                                                  |        |        |        |
| Rated battery voltage                | 48V                                                                                           |        |        |        |
| Maximum charging voltage             | ≤60 (Configurable)                                                                            |        |        |        |
| Maximum charge/discharge current     | 120A                                                                                          | 125A   | 150A   | 190A   |
| PV input data                        |                                                                                               |        |        |        |
| Maximum DC input power               | 10000W                                                                                        | 12000W | 14000W | 16000W |
| Maximum DC input voltage             | 1000V                                                                                         |        |        |        |
| MPPT Operating voltage range         | 200~800V                                                                                      |        |        |        |
| Starting voltage                     | 150V                                                                                          |        |        |        |
| Maximum input current                | 18A                                                                                           | 18A    | 18A    | 18/18A |
| MPPT number                          | 1                                                                                             | 1      | 1      | 2      |
| AC output parameters (On-Grid)       |                                                                                               |        |        |        |
| Maximum output apparent power        | 5500W                                                                                         | 6600W  | 7700W  | 8800W  |
| Rated output voltage                 | 380/400V                                                                                      |        |        |        |
| Rated output frequency               | 50/60Hz                                                                                       |        |        |        |
| Max output current                   | 8.3A                                                                                          | 10A    | 11.6A  | 13.3A  |
| Output power factor                  | 1 (-0.8 leading~+0.8 lagging)                                                                 |        |        |        |
| AC output parameters(Off-Grid)       |                                                                                               |        |        |        |
| Rated output apparent power          | 5500W                                                                                         | 6600W  | 7700W  | 8000W  |
| Maximum output apparent power        | >200%,15sec                                                                                   |        |        |        |
| Rated output voltage                 | 380/400V                                                                                      |        |        |        |
| Rated output frequency               | 50/60Hz                                                                                       |        |        |        |
| Max output current                   | 8.3A                                                                                          | 10A    | 11.6A  | 13.3A  |
| Efficiency                           |                                                                                               |        |        |        |
| Max efficiency                       | 98%                                                                                           |        |        |        |
| Max efficiency                       | 94.5%                                                                                         |        |        |        |
| Europe efficiency                    | 97.5%                                                                                         |        |        |        |
| Protection                           |                                                                                               |        |        |        |
| PV input reverse polarity protection | Yes                                                                                           |        |        |        |
| PV insulation resistance detection   | Yes                                                                                           |        |        |        |
| Residual current detection           | Yes                                                                                           |        |        |        |
| Output over current protection       | Yes                                                                                           |        |        |        |
| Output short circuit protection      | Yes                                                                                           |        |        |        |
| Output over voltage protection       | Yes                                                                                           |        |        |        |
| Basic data                           |                                                                                               |        |        |        |
| Operation temperature                | -25°C~60°C (frequency-decreasing above 45°C)                                                  |        |        |        |
| Storage temperature                  | -30~65°C                                                                                      |        |        |        |
| Relative humidity                    | 0~95%                                                                                         |        |        |        |
| Working altitude                     | ≤4000m (frequency-decreasing above 2000m)                                                     |        |        |        |
| Cooling                              | Intelligent forced air cooling                                                                |        |        |        |
| Noise                                | <55db                                                                                         |        |        |        |
| Weight                               | 38kg                                                                                          |        |        |        |
| Dimensions (W*H*D)                   | 475*683*256mm                                                                                 |        |        |        |
| Protection class                     | IP66                                                                                          |        |        |        |
| Topology                             | HF isolation(Battery side)                                                                    |        |        |        |
| Standard                             |                                                                                               |        |        |        |
| Safety standard/EMC standard         | NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)                                    |        |        |        |
| Grid-connected standard              | IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140 |        |        |        |
| Other standard                       | IEC61683, IEC62116, EN50530, IEC60068                                                         |        |        |        |

| Model                                | HyL10K                                                                                        | HyL12K                        | HyL15K        |
|--------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------|---------------|
| Battery input data                   |                                                                                               |                               |               |
| Battery Type                         |                                                                                               | Lithium or lead acid battery  |               |
| Rated battery voltage                |                                                                                               | 48V                           |               |
| Maximum charging voltage             |                                                                                               | ≤60 (Configurable)            |               |
| Maximum charge/discharge current     | 210A                                                                                          | 250A                          | 280A          |
| PV input data                        |                                                                                               |                               |               |
| Maximum DC input power               | 20000W                                                                                        | 24000W                        | 30000W        |
| Maximum DC input voltage             |                                                                                               | 1000V                         |               |
| MPPT Operating voltage range         |                                                                                               | 200~800V                      |               |
| Starting voltage                     |                                                                                               | 150V                          |               |
| Maximum input current                | 36/18A                                                                                        | 36/18A                        | 36/20A        |
| MPPT number                          | 2                                                                                             | 2                             | 2             |
| AC output parameters (On-Grid)       |                                                                                               |                               |               |
| Maximum output apparent power        | 11000W                                                                                        | 13200W                        | 16500W        |
| Rated output voltage                 |                                                                                               | 380/400V                      |               |
| Rated output frequency               |                                                                                               | 50/60Hz                       |               |
| Max output current                   | 16.7A                                                                                         | 20A                           | 25A           |
| Output power factor                  |                                                                                               | 1 (-0.8 leading~+0.8 lagging) |               |
| AC output parameters(Off-Grid)       |                                                                                               |                               |               |
| Rated output apparent power          | 10000W                                                                                        | 12000W                        | 15000W        |
| Maximum output apparent power        |                                                                                               | >200%,15sec                   |               |
| Rated output voltage                 |                                                                                               | 380/400V                      |               |
| Rated output frequency               |                                                                                               | 50/60Hz                       |               |
| Max output current                   | 16.7A                                                                                         | 20A                           | 24A           |
| Efficiency                           |                                                                                               |                               |               |
| Max efficiency                       |                                                                                               | 98%                           |               |
| Max efficiency                       |                                                                                               | 94.5%                         |               |
| Europe efficiency                    |                                                                                               | 97.5%                         |               |
| Protection                           |                                                                                               |                               |               |
| PV input reverse polarity protection |                                                                                               | Yes                           |               |
| PV insulation resistance detection   |                                                                                               | Yes                           |               |
| Residual current detection           |                                                                                               | Yes                           |               |
| Output over current protection       |                                                                                               | Yes                           |               |
| Output short circuit protection      |                                                                                               | Yes                           |               |
| Output over voltage protection       |                                                                                               | Yes                           |               |
| Basic data                           |                                                                                               |                               |               |
| Operation temperature                | -25°C~60°C (frequency-decreasing above 45°C)                                                  |                               |               |
| Storage temperature                  | -30~65°C                                                                                      |                               |               |
| Relative humidity                    | 0~95%                                                                                         |                               |               |
| Working altitude                     | ≤4000m (frequency-decreasing above 2000m)                                                     |                               |               |
| Cooling                              | Intelligent forced air cooling                                                                |                               |               |
| Noise                                | <55db                                                                                         |                               |               |
| Weight                               |                                                                                               | 38kg                          | 43kg          |
| Dimensions (W*H*D)                   |                                                                                               | 475*683*256mm                 | 475*755*256mm |
| Protection class                     |                                                                                               | IP66                          |               |
| Topology                             |                                                                                               | HF isolation(Battery side)    |               |
| Standard                             |                                                                                               |                               |               |
| Safety standard/EMC standard         | NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)                                    |                               |               |
| Grid-connected standard              | IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140 |                               |               |
| Other standard                       | IEC61683, IEC62116, EN50530, IEC60068                                                         |                               |               |





## Three Phase High Voltage Hybrid Inverter

Hy-8/10/12K



## Three Phase High Voltage Hybrid Inverter

Hy-29.9/30/40/50/60K

| Model                                          | Hy8K                                                                                                                                | Hy10K                           | Hy12K       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------|
| Inverter Input / Output(Grid)                  |                                                                                                                                     |                                 |             |
| Rated Power (Input/Output)(kw)                 | 12 / 8                                                                                                                              | 14 / 10                         | 16 / 12     |
| Rated Voltage                                  |                                                                                                                                     | 380 / 400Va.c.,3W+N+PE          |             |
| Rated Frequency (Hz)                           |                                                                                                                                     | 50 / 60                         |             |
| Power Factor Range                             |                                                                                                                                     | 0.8 leading~0.8 lagging         |             |
| Switch Time (ms)                               |                                                                                                                                     | <10                             |             |
| Max.Continuous Current (Input/Output) (A a.c.) | 17.4 / 11.6                                                                                                                         | 20.3 / 14.5                     | 23.2 / 17.4 |
| Max.Output Overcurrent Protection (A a.c.)     |                                                                                                                                     | 400 / 60                        |             |
| Battery                                        |                                                                                                                                     |                                 |             |
| Battery Type                                   |                                                                                                                                     | Lithium / Lead-acid             |             |
| Battery Voltage Range (V d.c.)                 |                                                                                                                                     | 125~800                         |             |
| Rated Battery Voltage (V d.c.)                 | 200                                                                                                                                 | 250                             | 300         |
| Max.Charge Current (A d.c.)                    |                                                                                                                                     | 40                              |             |
| Max.Discharge Current (A d.c.)                 |                                                                                                                                     | 40                              |             |
| Reverse Connect Protection                     |                                                                                                                                     | Yes                             |             |
| PV Input                                       |                                                                                                                                     |                                 |             |
| No.of MPPT Tracker/ Strings                    |                                                                                                                                     | 2 / 1+1                         |             |
| Max.PV Input Power (kw)                        | 12                                                                                                                                  | 15                              | 18          |
| Max.DC Voltage (v d.c.)                        |                                                                                                                                     | 1000                            |             |
| MPPT Voltage Range (V d.c.)                    |                                                                                                                                     | 150~950                         |             |
| Start-up Voltage (V d.c.)                      |                                                                                                                                     | 200                             |             |
| Max.Input Current/ String (A d.c.)             |                                                                                                                                     | 2*16                            |             |
| Isc PV (Absolute Maximum)/ String (A d.c.)     |                                                                                                                                     | 2*24                            |             |
| AC Output(EPS) / Generator                     |                                                                                                                                     |                                 |             |
| EPS Rated Output Voltage                       |                                                                                                                                     | 380 / 400Va.c.,3W+N+PE          |             |
| EPS Rated Output Frequency (Hz)                |                                                                                                                                     | 50 / 60                         |             |
| EPS Rated Output Active Power (kW)             | 8                                                                                                                                   | 10                              | 12          |
| EPS Rated OutputApparent Power (kVA)           | 8                                                                                                                                   | 10                              | 12          |
| EPS Rated Output Current (A a.c.)              | 11.6                                                                                                                                | 14.5                            | 17.4        |
| Overload Capacity (Off Grid)                   |                                                                                                                                     | 110% 30s / 120% 10s / 150% 0.2s |             |
| Efficiency                                     |                                                                                                                                     |                                 |             |
| MPPT Efficiency                                |                                                                                                                                     | 99.90%                          |             |
| Euro.Efficiency                                |                                                                                                                                     | 97.50%                          |             |
| Max.Efficiency                                 |                                                                                                                                     | 98%                             |             |
| Protection & Feature                           |                                                                                                                                     |                                 |             |
| Insulation Monitoring                          |                                                                                                                                     | Yes                             |             |
| Residual Current Monitoring                    |                                                                                                                                     | Yes                             |             |
| Parallel Function                              |                                                                                                                                     | Yes                             |             |
| Protection Degree                              |                                                                                                                                     | IP65                            |             |
| Certifications                                 | IEC 62109-1/2, IEC 62477-1, IEC 61000-6-1, IEC 61000-6-3, EN 50549-1,VDE-AR-N 4105, OVE R25,NA/EEA-NE7-CHUNE 217001&2/NTS 631, etc. |                                 |             |
| Other Protection                               | Ground fault current monitoring, Earth fault detection, Residual current(RCD)Detection etc.                                         |                                 |             |
| General Parameter                              |                                                                                                                                     |                                 |             |
| Storage Temperature                            |                                                                                                                                     | -25°C~-+60°C                    |             |
| Operating Temperature                          | -25°C ~ +60°C (Linely derating to 60% when exceed +45°C ~ +60°C)                                                                    |                                 |             |
| Humidity                                       |                                                                                                                                     | 0%~100% (Non-condensing)        |             |
| Max.Operating Altitude(m)                      |                                                                                                                                     | 4000 (>2000 Derating)           |             |
| Noise (dB)                                     |                                                                                                                                     | <35                             |             |
| Machine Dimensions(W*H*D)(mm)                  |                                                                                                                                     | 530*600*210                     |             |
| Machine Weight/N.w. (kg)                       |                                                                                                                                     | 35                              |             |

| Model                                         | Hy29.9K                                                                                                           | Hy30K       | Hy40K                           | Hy50K     | Hy60K       |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------|-----------|-------------|
| Inverter Input / Output(Grid)                 |                                                                                                                   |             |                                 |           |             |
| Rated Power(kW)                               | 29.9                                                                                                              | 30          | 40                              | 50        | 60          |
| Rated Voltage                                 |                                                                                                                   |             | 380/400Va.c.,3W+N+PE            |           |             |
| Rated Frequency(Hz)                           |                                                                                                                   |             | 50/60                           |           |             |
| Power Factor Range                            |                                                                                                                   |             | 0.8 leading~0.8 lagging         |           |             |
| Max.Continuous Current (Input/Output)(A a.c.) | 90.8/45.4                                                                                                         | 91.2/45.6   | 121.6/60.8                      | 152/76    | 182.4/91.2  |
| Max.Output Overcurrent Protection (A a.c.)    | 68.1/64.7                                                                                                         | 68.4/65     | 91.2 /86.6                      | 114/108.3 | 136.7/129.9 |
| Battery                                       |                                                                                                                   |             |                                 |           |             |
| Battery Type                                  |                                                                                                                   |             | Lithium / Lead-acid             |           |             |
| Battery Voltage Range (V d.c.)                |                                                                                                                   |             | 135~850                         |           |             |
| Rated Battery Voltage (V d.c.)                | 150                                                                                                               | 150         | 200                             | 250       | 300         |
| Max.Charge Current (A d.c.)                   |                                                                                                                   |             | 2*100                           |           |             |
| Max.Discharge Current (A d.c.)                |                                                                                                                   |             | 2*100                           |           |             |
| Reverse Connect Protection                    |                                                                                                                   |             | Yes                             |           |             |
| PV Input                                      |                                                                                                                   |             |                                 |           |             |
| No.of MPPT Tracker/Strings                    |                                                                                                                   |             | 4 / 2+2+2+2                     |           |             |
| Max.PV Input Power (kW)                       | 59.8                                                                                                              | 60          | 80                              |           | 100         |
| Max.DC Voltage(V d.c.)                        |                                                                                                                   |             | 1000                            |           |             |
| MPPT Voltage Range (V d.c.)                   |                                                                                                                   |             | 150~850                         |           |             |
| Start-up Voltage (V d.c.)                     |                                                                                                                   |             | 200                             |           |             |
| Max.Input Current/ String (A d.c.)            |                                                                                                                   |             | 8*20                            |           |             |
| Isc PV (Absolute Maximum)/ String (A d.c.)    |                                                                                                                   |             | 8*30                            |           |             |
| AC Output(EPS) / Generator                    |                                                                                                                   |             |                                 |           |             |
| EPS Rated Output Voltage                      |                                                                                                                   |             | 380 / 400Va.c.,3W+N+PE          |           |             |
| EPS Rated Output Frequency (Hz)               |                                                                                                                   |             | 50/60                           |           |             |
| EPS Rated Output Active Power (kW)            | 29.9                                                                                                              | 30          | 40                              | 50        | 60          |
| EPS Rated Output Apparent Power (kVA)         | 29.9                                                                                                              | 30          | 40                              | 50        | 60          |
| EPS Rated Output Current (A a.c.)             | 45.4 / 43.2                                                                                                       | 45.6 / 43.3 | 60.8 / 57.7                     | 76 / 72.2 | 91.2 / 86.6 |
| Overload Capacity (Off Grid)                  |                                                                                                                   |             | 110% 30s / 120% 10s / 150% 0.2s |           |             |
| Efficiency                                    |                                                                                                                   |             |                                 |           |             |
| MPPT Efficiency                               |                                                                                                                   |             | 99.90%                          |           |             |
| Euro.Efficiency                               |                                                                                                                   |             | 97.50%                          |           |             |
| Max.Efficiency                                |                                                                                                                   |             | 98.5%                           |           |             |
| Protection & Feature                          |                                                                                                                   |             |                                 |           |             |
| Insulation Monitoring                         |                                                                                                                   |             | Yes                             |           |             |
| Residual Current Monitoring                   |                                                                                                                   |             | Yes                             |           |             |
| Parallel Function                             |                                                                                                                   |             | Yes,up to 6pcs                  |           |             |
| Protection Degree                             |                                                                                                                   |             | IP66                            |           |             |
| Certifications                                | EN IEC 62477-1, EN IEC 62109-1/2, EN IEC 61000-6-2, EN50549-1/10, VDE-AR-N 4105, G99:2022, AS/NZS 477.2:2020 etc. |             |                                 |           |             |
| Other Protection                              | Ground fault current monitoring, Earth fault detection, Residual current(RCD)Detection etc.                       |             |                                 |           |             |
| General Parameter                             |                                                                                                                   |             |                                 |           |             |
| Storage Temperature                           |                                                                                                                   |             | -25°C~+60°C                     |           |             |
| Operating Temperature                         | -25°C ~ +60°C (Linely derating to 60% when exceed +45°C ~ +60°C)                                                  |             |                                 |           |             |
| Humidity                                      |                                                                                                                   |             | 0%~100% (Non-condensing)        |           |             |
| Max.Operating Altitude (m)                    |                                                                                                                   |             | 4000                            |           |             |
| Noise (dB)                                    |                                                                                                                   |             | <65                             |           |             |
| Machine Dimensions(W*H*D)(mm)                 |                                                                                                                   |             | 544*880*278                     |           |             |
| Machine Weight/N.w. (kg)                      |                                                                                                                   |             | 88                              |           |             |





## Single Phase On Grid Inverter

HonS-1.5/2/2.7/3/3.3/3.6/4K

| Model No                          | HonS1.5K                                                              | HonS2K | HonS2.7K | HonS3K                        | HonS3.3K | HonS3.6K | HonS4K |
|-----------------------------------|-----------------------------------------------------------------------|--------|----------|-------------------------------|----------|----------|--------|
| Input                             |                                                                       |        |          |                               |          |          |        |
| Max. DC Input Power               | 3000W                                                                 | 4000W  | 5400W    | 6000W                         | 6600W    | 7200W    | 8000W  |
| Max. DC Input Voltage             |                                                                       |        |          | 550V                          |          |          |        |
| Max. DC Input Current             |                                                                       |        |          | 20A                           |          |          |        |
| MPPT Voltage Range                |                                                                       |        |          | 40-550V                       |          |          |        |
| Recommended MPP Operating Voltage |                                                                       |        |          | 360V                          |          |          |        |
| No.of MPPT                        |                                                                       |        |          | 1                             |          |          |        |
| Max. No. of Strings Per MPPT      |                                                                       |        |          | 1                             |          |          |        |
| Output                            |                                                                       |        |          |                               |          |          |        |
| Rated Output Power                | 1500W                                                                 | 2000W  | 2700W    | 3000W                         | 3300W    | 3600W    | 4000W  |
| Max. Output Power                 | 1650VA                                                                | 2200VA | 2970VA   | 3300VA                        | 3630VA   | 3960W    | 4400VA |
| Max. Output Current               | 7.5A                                                                  | 10A    | 13.5A    | 15A                           | 15A      | 16.5A    | 18.5A  |
| Rated Grid Voltage                |                                                                       |        |          | 220/230/240V                  |          |          |        |
| Grid Voltage Range                |                                                                       |        |          | 90-290Vac                     |          |          |        |
| Rated Grid Frquency               |                                                                       |        |          | 50Hz/60Hz                     |          |          |        |
| Grid Frequency Range              |                                                                       |        |          | 45-55Hz/55-65Hz               |          |          |        |
| THD                               |                                                                       |        |          | <3% (Under rated power)       |          |          |        |
| Power Factor                      | >0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging |        |          |                               |          |          |        |
| DC Current Injection              | <0.5% (Under rated power)                                             |        |          |                               |          |          |        |
| System Dala                       |                                                                       |        |          |                               |          |          |        |
| Max. Efficiency                   |                                                                       |        |          | 98.00%                        |          |          |        |
| Euro. Efficiency                  |                                                                       |        |          | 97.00%                        |          |          |        |
| Humidity Range                    |                                                                       |        |          | 0-100% non-condensing         |          |          |        |
| Cooling Type                      |                                                                       |        |          | Natural cooling               |          |          |        |
| Temperature Range                 |                                                                       |        |          | -25~+60°C                     |          |          |        |
| Power Consumption at Night        |                                                                       |        |          | <1W                           |          |          |        |
| Max. Working Altitude             |                                                                       |        |          | 4000m                         |          |          |        |
| Display                           |                                                                       |        |          | LED(optional: LCD)            |          |          |        |
| Communication Interface           |                                                                       |        |          | WIFI(optional: RS485 or GPRS) |          |          |        |
| Protection                        |                                                                       |        |          |                               |          |          |        |
| DC Reverse-Polarity Protection    |                                                                       |        |          | Yes                           |          |          |        |
| Short Circuit Protection          |                                                                       |        |          | Yes                           |          |          |        |
| Output Over Current Protection    |                                                                       |        |          | Yes                           |          |          |        |
| Output Over Voltage Protection    |                                                                       |        |          | Yes                           |          |          |        |
| Insuation Resistance Monitoring   |                                                                       |        |          | Yes                           |          |          |        |
| Residual Current Detection        |                                                                       |        |          | Yes                           |          |          |        |
| Surge Protection                  |                                                                       |        |          | Yes                           |          |          |        |
| Grid Monitoring                   |                                                                       |        |          | Yes                           |          |          |        |
| Islanding Protection              |                                                                       |        |          | Yes                           |          |          |        |
| Temperature Protection            |                                                                       |        |          | Yes                           |          |          |        |
| Integrated DC Switch              |                                                                       |        |          | Optional                      |          |          |        |
| Mechanical Data                   |                                                                       |        |          |                               |          |          |        |
| Dimensions (W*H*D)                |                                                                       |        |          | 295*210*120mm                 |          |          |        |
| Weight                            |                                                                       |        |          | 5.5kg                         |          |          |        |
| Protection Class                  |                                                                       |        |          | IP66                          |          |          |        |



## Single Phase On Grid Inverter

HonS-4/5/6/8/10K

| Model No                          | HonS4K                                                                   | HonS5K          | HonS6K                        | HonS8K                         | HonS10K |
|-----------------------------------|--------------------------------------------------------------------------|-----------------|-------------------------------|--------------------------------|---------|
| Input                             |                                                                          |                 |                               |                                |         |
| Max. DC Input Power               | 6000W                                                                    | 7500W           | 9000W                         | 12000W                         | 15000W  |
| Max. DC Input Voltage             |                                                                          |                 | 550V                          |                                |         |
| Max. DC Input Current             | 20/20A                                                                   | 20/20A          | 20/20A                        | 20/26A                         | 20/30A  |
| MPPT Voltage Range                |                                                                          |                 | 80-550V                       |                                |         |
| Recommended MPP Operating Voltage |                                                                          |                 | 360V                          |                                |         |
| No.of MPPT                        |                                                                          |                 | 2                             |                                |         |
| Max. No. of Strings Per MPPT      |                                                                          | 1/1             |                               | 1/2                            |         |
| Output                            |                                                                          |                 |                               |                                |         |
| Rated Output Power                | 4000W                                                                    | 5000W           | 6000W                         | 8000W                          | 10000W  |
| Max. Output Power                 | 4.4kVA                                                                   | 5.5kVA          | 6.6kVA                        | 8.8kVA                         | 11kVA   |
| Max. Output Current               | 20A                                                                      | 25A             | 27.3A                         | 36.4A                          | 45.5A   |
| Rated Grid Voltage                |                                                                          |                 | 230V                          |                                |         |
| Grid Voltage Range                |                                                                          |                 | 160~270Vac (adjustable)       |                                |         |
| Rated Grid Frequency              |                                                                          |                 | 50Hz/60Hz                     |                                |         |
| Grid Frequency Range              |                                                                          |                 | 45~55Hz/55~65Hz               |                                |         |
| THD                               |                                                                          |                 | <2% (Under the rated power)   |                                |         |
| Power Factor                      | >0.99 (Under the rated power) /Adjustable range: 0.8 leading~0.8 lagging |                 |                               |                                |         |
| DC Current Injection              | <0.5% (Under the rated power)                                            |                 |                               |                                |         |
| System Data                       |                                                                          |                 |                               |                                |         |
| Max. Efficiency                   | 98.1%                                                                    | 97.5%           | 98.1%                         | 97.5%                          | 98.1%   |
| Euro. Efficiency                  | 97.5%                                                                    | 98.1%           | 97.5%                         | 98.1%                          | 97.6%   |
| Humidity Range                    |                                                                          |                 | 0-100% non-condensing         |                                |         |
| Cooling Type                      |                                                                          | Natural cooling |                               | Intelligent forced air cooling |         |
| Temperature Range                 |                                                                          |                 | -25~+60°C                     |                                |         |
| Power Consumption at Night        |                                                                          |                 | <1W                           |                                |         |
| Max. Working Altitude             |                                                                          |                 | 4000m                         |                                |         |
| Display                           |                                                                          |                 | LED(optional: LCD)            |                                |         |
| Communication Interface           |                                                                          |                 | WIFI(optional: RS485 or GPRS) |                                |         |
| Protection                        |                                                                          |                 |                               |                                |         |
| DC Reverse-Polarity Protection    |                                                                          |                 | Yes                           |                                |         |
| Short Circuit Protection          |                                                                          |                 | Yes                           |                                |         |
| Output Over Current Protection    |                                                                          |                 | Yes                           |                                |         |
| Output Over Voltage Protection    |                                                                          |                 | Yes                           |                                |         |
| Insulation Resistance Monitoring  |                                                                          |                 | Yes                           |                                |         |
| Residual Current Detection        |                                                                          |                 | Yes                           |                                |         |
| Surge Protection                  |                                                                          |                 | Yes                           |                                |         |
| Grid Monitoring                   |                                                                          |                 | Yes                           |                                |         |
| Islanding Protection              |                                                                          |                 | Yes                           |                                |         |
| Temperature Protection            |                                                                          |                 | Yes                           |                                |         |
| Integrated DC Switch              |                                                                          |                 | Yes                           |                                |         |
| Mechanical Data                   |                                                                          |                 |                               |                                |         |
| Dimensions (W*H*D)                |                                                                          | 347*368*167mm   |                               | 347*368*190mm                  |         |
| Weight                            |                                                                          | 10kg            |                               | 11kg                           |         |
| Protection Class                  |                                                                          |                 | IP66                          |                                |         |





## Three Phase On Grid Inverter

HonT-6/8/10/12/15/17K

| Model No                          | HonT6K                                                                  | HonT8K | HonT10K                        | HonT12K | HonT15K | HonT17K |
|-----------------------------------|-------------------------------------------------------------------------|--------|--------------------------------|---------|---------|---------|
| Input                             |                                                                         |        |                                |         |         |         |
| Max. DC Input Power               | 9000W                                                                   | 12000W | 15000W                         | 18000W  | 22500W  | 25500W  |
| Max. DC Input Voltage             |                                                                         |        | 1100W                          |         |         |         |
| Max. DC Input Current             |                                                                         | 20/20A |                                |         | 20/30A  |         |
| MPPT Voltage Range                |                                                                         |        | 180-1000V                      |         |         |         |
| Recommended MPP Operating Voltage |                                                                         |        | 650V                           |         |         |         |
| No.of MPPT                        |                                                                         | 2      |                                |         | 2       |         |
| Max. No. of Strings Per MPPT      |                                                                         | 1/1    |                                |         | 1/2     |         |
| Output                            |                                                                         |        |                                |         |         |         |
| Rated Output Power                | 6000W                                                                   | 8000W  | 10000W                         | 12000W  | 15000W  | 17000W  |
| Max. Output Power                 | 6.6kVA                                                                  | 8.8kVA | 11kVA                          | 13.2kVA | 16.5kVA | 17.7kVA |
| Max. Output Current               | 10A                                                                     | 13.3A  | 16.7A                          | 20A     | 24A     | 28.3A   |
| Rated Grid Voltage                |                                                                         |        | 400V                           |         |         |         |
| Grid Voltage Range                |                                                                         |        | 310-480Vac                     |         |         |         |
| Rated Grid Frequency              |                                                                         |        | 50Hz/60Hz                      |         |         |         |
| Grid Frequency Range              |                                                                         |        | 45~55Hz/55~65Hz                |         |         |         |
| THD                               |                                                                         |        | <2% (Under the rated power)    |         |         |         |
| Power Factor                      | >0.99 (Under the rated power)/Adjustable range: 0.8 leading~0.8 lagging |        |                                |         |         |         |
| DC Current Injection              |                                                                         |        | <0.5%(Under the rated power)   |         |         |         |
| System Data                       |                                                                         |        |                                |         |         |         |
| Efficiency                        | 98.5%                                                                   | 98.5%  | 98.6%                          | 98.7%   | 98.7%   | 98.7%   |
| Euro. Efficiency                  | 98%                                                                     | 98%    | 98.2%                          | 98.1%   | 98.2%   | 98.2%   |
| Humidity Range                    |                                                                         |        | 0~100%, non-condensing         |         |         |         |
| Cooling Type                      |                                                                         |        | Intelligent forced air cooling |         |         |         |
| Temperature Range                 |                                                                         |        | -25~60°C                       |         |         |         |
| Power Consumption at Night        |                                                                         |        | <1W                            |         |         |         |
| Max. Working Altitude             |                                                                         |        | 4000m                          |         |         |         |
| Display                           |                                                                         |        | LED(optional: LCD)             |         |         |         |
| Communication Interface           |                                                                         |        | WIFI(optional: RS485 or GPRS)  |         |         |         |
| Protection                        |                                                                         |        |                                |         |         |         |
| DC Reverse-Polarity Protection    |                                                                         |        |                                | Yes     |         |         |
| Short Circuit Protection          |                                                                         |        |                                | Yes     |         |         |
| Output Over Current Protection    |                                                                         |        |                                | Yes     |         |         |
| Output Over Voltage Protection    |                                                                         |        |                                | Yes     |         |         |
| Insulation Resistance Monitoring  |                                                                         |        |                                | Yes     |         |         |
| Residual Current Detection        |                                                                         |        |                                | Yes     |         |         |
| Surge Protection                  |                                                                         |        |                                | Yes     |         |         |
| Grid Monitoring                   |                                                                         |        |                                | Yes     |         |         |
| Islanding Protection              |                                                                         |        |                                | Yes     |         |         |
| Temperature Protection            |                                                                         |        |                                | Yes     |         |         |
| Integrated DC Switch              |                                                                         |        |                                | Yes     |         |         |
| Mechanical Data                   |                                                                         |        |                                |         |         |         |
| Dimensions (W*H*D)                |                                                                         |        | 427*450*204mm                  |         |         |         |
| Weight                            |                                                                         |        |                                | 15kg    |         |         |
| Protection Class                  |                                                                         |        |                                | IP66    |         |         |



## Three Phase On Grid Inverter

HonT-20/23/25/28K

| Model No                          | HonT20K                                                                   | HonT23K                        | HonT25K | HonT28K |
|-----------------------------------|---------------------------------------------------------------------------|--------------------------------|---------|---------|
| Input                             |                                                                           |                                |         |         |
| Max. DC Input Power               | 30000W                                                                    | 34500W                         | 37500W  | 42000W  |
| Max. DC Input Voltage             |                                                                           | 1100V                          |         |         |
| Max. DC Input Current             | 30/30A                                                                    |                                | 40/30A  | 40/40A  |
| MPPT Voltage Range                |                                                                           | 180-1000V                      |         |         |
| Recommended MPP Operating Voltage |                                                                           | 650V                           |         |         |
| No.of MPPT                        |                                                                           | 2                              |         |         |
| Max. No. of Strings Per MPPT      |                                                                           | 2/2                            |         |         |
| Output                            |                                                                           |                                |         |         |
| Rated Output Power                | 20000W                                                                    | 23000W                         | 25000W  | 28000W  |
| Max. Output Power                 | 22kVA                                                                     | 25.3kVA                        | 27.5kVA | 30.8kVA |
| Max. Output Current               | 32A                                                                       | 36.5A                          | 41A     | 45A     |
| Rated Grid Voltage                |                                                                           | 400V                           |         |         |
| Grid Voltage Range                |                                                                           | 310-480Vac                     |         |         |
| Rated Grid Frequency              |                                                                           | 50Hz/60Hz                      |         |         |
| Grid Frequency Range              |                                                                           | 45~55Hz/55~65Hz                |         |         |
| THD                               |                                                                           | <2% (Under the rated power)    |         |         |
| Power Factor                      | >0.99 (Under the rated power) / Adjustable range: 0.8 leading~0.8 lagging |                                |         |         |
| DC Current Injection              |                                                                           | <0.5% (Under the rated power)  |         |         |
| System Data                       |                                                                           |                                |         |         |
| Max. Efficiency                   |                                                                           | 98.8%                          |         |         |
| Euro. Efficiency                  |                                                                           | 98.2%                          |         |         |
| Humidity Range                    |                                                                           | 0~100%, non-condensing         |         |         |
| Cooling Type                      |                                                                           | Intelligent forced air cooling |         |         |
| Temperature Range                 |                                                                           | -25~+60°C                      |         |         |
| Power Consumption at Night        |                                                                           | <1W                            |         |         |
| Max. Working Altitude             |                                                                           | 4000m                          |         |         |
| Display                           |                                                                           | LED(optional: LCD)             |         |         |
| Communication Interface           |                                                                           | WIFI(optional: RS485 or GPRS)  |         |         |
| Protection                        |                                                                           |                                |         |         |
| DC Reverse-Polarity Protection    |                                                                           | Yes                            |         |         |
| Short Circuit Protection          |                                                                           | Yes                            |         |         |
| Output Over Current Protection    |                                                                           | Yes                            |         |         |
| Output Over Voltage Protection    |                                                                           | Yes                            |         |         |
| Insulation Resistance Monitonng   |                                                                           | Yes                            |         |         |
| Residual Current Detection        |                                                                           | Yes                            |         |         |
| Surge Protection                  |                                                                           | Yes                            |         |         |
| Grid Monitoring                   |                                                                           | Yes                            |         |         |
| Islanding Protection              |                                                                           | Yes                            |         |         |
| Temperature Protection            |                                                                           | Yes                            |         |         |
| Integrated DC Switch              |                                                                           | Yes                            |         |         |
| Mechanical Data                   |                                                                           |                                |         |         |
| Dimensions (W*H*D)                |                                                                           | 427*450*204mm                  |         |         |
| Weight                            |                                                                           | 18kg                           |         |         |
| Protection Class                  |                                                                           | IP66                           |         |         |





## Three Phase On Grid Inverter

HonT-30/33/36/40/45/50K

| Model No                          | HonT30K                                                               | HonT33K      | HonT36K | HonT40K-Plus | HonT45K      | HonT50K |
|-----------------------------------|-----------------------------------------------------------------------|--------------|---------|--------------|--------------|---------|
| Input                             |                                                                       |              |         |              |              |         |
| Max. DC Input Power               | 45000W                                                                | 49500W       | 54000W  | 60000W       | 67500W       | 75000W  |
| Max. DC Input Voltage             | 1100W                                                                 |              |         |              |              |         |
| Max. DC Input Current             | 40/40/20A                                                             | 40/40/20/20A |         | 40/40/20/20A | 40/40/20/20A |         |
| MPPT Voltage Range                | 200-1000V                                                             |              |         |              |              |         |
| Recommended MPP Operating Voltage | 650V                                                                  |              |         |              |              |         |
| No. of MPPT                       | 3                                                                     |              |         |              | 4            |         |
| Max. No. of Strings Per MPPT      |                                                                       |              |         | 2            |              |         |
| Output                            |                                                                       |              |         |              |              |         |
| Rated Output Power                | 30000W                                                                | 33000W       | 36000W  | 40000W       | 45000W       | 50000W  |
| Max. Output Power                 | 33kVA                                                                 | 36.3kVA      | 39.6kVA | 44kVA        | 49.5kVA      | 55kVA   |
| Max. Output Current               | 48A                                                                   | 53A          | 56A     | 65A          | 72A          | 80A     |
| Rated Grid Voltage                | 400Vac                                                                |              |         |              |              |         |
| Grid Voltage Range                | 310-480Vac                                                            |              |         |              |              |         |
| Rated Grid Frequency              | 50Hz/60Hz                                                             |              |         |              |              |         |
| Grid Frequency Range              | 45-55Hz/55-65Hz                                                       |              |         |              |              |         |
| THD                               | <2% (Under rated power)                                               |              |         |              |              |         |
| Power Factor                      | >0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging |              |         |              |              |         |
| DC Current Injection              | <0.5% (Under rated power)                                             |              |         |              |              |         |
| System Data                       |                                                                       |              |         |              |              |         |
| Max. Efficiency                   | 98.6%                                                                 | 98.6%        | 98.6%   | 98.6%        | 98.6%        | 98.7%   |
| Euro. Efficiency                  | 98.1%                                                                 | 98.1%        | 98.1%   | 98.2%        | 98.2%        | 98.2%   |
| Humidity Range                    | 0~100% non-condensing                                                 |              |         |              |              |         |
| Cooling Type                      | Intelligent forced air cooling                                        |              |         |              |              |         |
| Temperature Range                 | -25~+60°C                                                             |              |         |              |              |         |
| Power Consumption at Night        | <1W                                                                   |              |         |              |              |         |
| Max. Working Altitude             | 4000m                                                                 |              |         |              |              |         |
| Display                           | LED(optional: LCD)                                                    |              |         |              |              |         |
| Communication Interface           | WIFI(optional: RS485 or GPRS)                                         |              |         |              |              |         |
| Protection                        |                                                                       |              |         |              |              |         |
| DC Reverse-Polarity Protection    |                                                                       |              |         | Yes          |              |         |
| Short Circuit Protection          |                                                                       |              |         | Yes          |              |         |
| Output Over Current Protection    |                                                                       |              |         | Yes          |              |         |
| Output Over Voltage Protection    |                                                                       |              |         | Yes          |              |         |
| Insulation Resistance Monitoring  |                                                                       |              |         | Yes          |              |         |
| Residual Current Detection        |                                                                       |              |         | Yes          |              |         |
| Surge Protection                  |                                                                       |              |         | Yes          |              |         |
| Grid Monitoring                   |                                                                       |              |         | Yes          |              |         |
| Islanding Protection              |                                                                       |              |         | Yes          |              |         |
| Temperature Protection            |                                                                       |              |         | Yes          |              |         |
| Integrated DC Switch              |                                                                       |              |         | Yes          |              |         |
| Mechanical Data                   |                                                                       |              |         |              |              |         |
| Dimensions (W*H*D)                | 610*564*218mm                                                         |              |         |              |              |         |
| Weight                            | 37kg                                                                  |              |         |              |              |         |
| Protection Class                  | IP66                                                                  |              |         |              |              |         |



## Three Phase On Grid Inverter

HonT-80/90/100/110/125K

| Model No                          | HonT80K                                                               | HonT90K | HonT100K                       | HonT110K | HonT125K |
|-----------------------------------|-----------------------------------------------------------------------|---------|--------------------------------|----------|----------|
| Input                             |                                                                       |         |                                |          |          |
| Max. DC Input Power               | 120kW                                                                 | 135kW   | 150kW                          | 165kW    | 187.5kW  |
| Max. DC Input Voltage             |                                                                       |         | 1100V                          |          |          |
| Max. DC Input Current             | 30A*8                                                                 | 30A*9   | 30A*10                         | 30A*10   | 30A*10   |
| MPPT Voltage Range                |                                                                       |         | 200~1000V                      |          |          |
| Recommended MPP Operating Voltage |                                                                       |         | 600V                           |          |          |
| No. of MPPT                       | 8                                                                     | 9       | 10                             | 10       | 10       |
| Max. No. of Strings Per MPPT      |                                                                       |         | 2                              |          |          |
| Output                            |                                                                       |         |                                |          |          |
| Rated Output Power                | 80kW                                                                  | 90kW    | 100kW                          | 110kW    | 125kW    |
| Max. Output Power                 | 88kVA                                                                 | 99kVA   | 110kVA                         | 121kVA   | 137.5kVA |
| Max. Output Current               | 127A                                                                  | 142.9A  | 158.8A                         | 174.6A   | 199.3A   |
| Rated Grid Voltage                |                                                                       |         | 400V                           |          |          |
| Grid Voltage Range                |                                                                       |         | 310~480Vac                     |          |          |
| Rated Grid Frequency              |                                                                       |         | 50Hz/60Hz                      |          |          |
| Grid Frequency Range              |                                                                       |         | 45~55Hz/55~65Hz                |          |          |
| THD                               |                                                                       |         | < 2% (Under the rated power)   |          |          |
| Power Factor                      | >0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging |         |                                |          |          |
| DC Current Injection              |                                                                       |         | < 0.5% (Under the rated power) |          |          |
| System Data                       |                                                                       |         |                                |          |          |
| Max. Efficiency                   | 98.6%                                                                 | 98.6%   | 98.7%                          | 98.7%    | 98.9%    |
| Euro. Efficiency                  | 98.1%                                                                 | 98.1%   | 98.1%                          | 98.1%    | 98.2%    |
| Humidity Range                    |                                                                       |         | 0-100% non-condensing          |          |          |
| Cooling Type                      |                                                                       |         | Intelligent forced air cooling |          |          |
| Temperature Range                 |                                                                       |         | -25~+60°C                      |          |          |
| Power Consumption at Night        |                                                                       |         | < 1W                           |          |          |
| Max. Working Altitude             |                                                                       |         | 4000m                          |          |          |
| Display                           |                                                                       |         | LED(optional: LCD)             |          |          |
| Communication Interface           |                                                                       |         | WIFI(optional: RS485 or GPRS)  |          |          |
| Protection                        |                                                                       |         |                                |          |          |
| DC Reverse-Polarity Protection    |                                                                       |         | Yes                            |          |          |
| Short Circuit Protection          |                                                                       |         | Yes                            |          |          |
| Output Over Current Protection    |                                                                       |         | Yes                            |          |          |
| Output Over Voltage Protection    |                                                                       |         | Yes                            |          |          |
| Insulation Resistance Monitoring  |                                                                       |         | Yes                            |          |          |
| Residual Current Detection        |                                                                       |         | Yes                            |          |          |
| Surge Protection                  |                                                                       |         | Yes                            |          |          |
| Grid Monitoring                   |                                                                       |         | Yes                            |          |          |
| Islanding Protection              |                                                                       |         | Yes                            |          |          |
| Temperature Protection            |                                                                       |         | Yes                            |          |          |
| Integrated DC Switch              |                                                                       |         | Yes                            |          |          |
| Mechanical Data                   |                                                                       |         |                                |          |          |
| Dimensions (W*H*D)                |                                                                       |         | 1050*620*333mm                 |          |          |
| Weight                            |                                                                       |         | 85kg                           |          |          |
| Protection Class                  |                                                                       |         | IP66                           |          |          |





# Three Phase On Grid Inverter

HonT-100/125/136K-HV

| Model No                          | HonT100K-HV                                                           | HonT125K-HV                    | HonT136K-HV |
|-----------------------------------|-----------------------------------------------------------------------|--------------------------------|-------------|
| Input                             |                                                                       |                                |             |
| Max. DC Input Power               | 150kW                                                                 | 187.5kW                        | 204kW       |
| Max. DC Input Voltage             |                                                                       | 1100V                          |             |
| Max. DC Input Current             |                                                                       | 30A*10                         |             |
| MPPT Voltage Range                |                                                                       | 200~1000V                      |             |
| Recommended MPP Operating Voltage |                                                                       | 720V                           |             |
| No.of MPPT                        |                                                                       | 10                             |             |
| Max. No. of Strings Per MPPT      |                                                                       | 2                              |             |
| Output                            |                                                                       |                                |             |
| Rated Output Power                | 100kW                                                                 | 125kW                          | 136kW       |
| Max. Output Power                 | 110kVA                                                                | 138kVA                         | 150kVA      |
| Max. Output Curent                | 127A                                                                  | 158.8A                         | 172.6A      |
| Rated Grid Voltage                |                                                                       | 500V                           |             |
| Grid Voltage Range                |                                                                       | 422~550Vac                     |             |
| Rated Grid Frequency              |                                                                       | 50Hz/60Hz                      |             |
| Grid Frequency Range              |                                                                       | 45~55Hz/55~65Hz                |             |
| THD                               |                                                                       | < 2% (Under the rated power)   |             |
| Power Factor                      | >0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging |                                |             |
| DC Current Injection              |                                                                       | < 0.5% (Under the rated power) |             |
| System Data                       |                                                                       |                                |             |
| Max. Efficiency                   | 98.9%                                                                 | 98.9%                          | 98.9%       |
| Euro. Efficiency                  | 98.3%                                                                 | 98.4%                          | 98.4%       |
| Humidity Range                    |                                                                       | 0-100% non-condensing          |             |
| Cooling Type                      |                                                                       | Intelligent forced air cooling |             |
| Temperature Range                 |                                                                       | -25~+60℃                       |             |
| Power Consumption at Night        |                                                                       | < 1W                           |             |
| Max. Working Altitude             |                                                                       | 4000m                          |             |
| Display                           |                                                                       | LED(Optional: LCD)             |             |
| Communication Interface           |                                                                       | WIFI(Optional: RS485 or GPRS)  |             |
| Protection                        |                                                                       |                                |             |
| DC Reverse-Polarity Protection    |                                                                       | Yes                            |             |
| Short Circuit Protection          |                                                                       | Yes                            |             |
| Output Over Current Protection    |                                                                       | Yes                            |             |
| Output Over Voltage Protection    |                                                                       | Yes                            |             |
| Insulation Resistance Monitonnng  |                                                                       | Yes                            |             |
| Residual Current Detection        |                                                                       | Yes                            |             |
| Surge Protection                  |                                                                       | Yes                            |             |
| Grid Monitoring                   |                                                                       | Yes                            |             |
| Islanding Protection              |                                                                       | Yes                            |             |
| Temperature Protection            |                                                                       | Yes                            |             |
| Integrated DC Switch              |                                                                       | Yes                            |             |
| Mechanical Data                   |                                                                       |                                |             |
| Dimensions (W*H*D)                |                                                                       | 1050*620*333mm                 |             |
| Weight                            |                                                                       | 85kg                           |             |
| Protection Class                  |                                                                       | IP66                           |             |



DH-CNB-231005



| Model                     | DH-CNB-231005                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal Voltage           | 51.2V                                                                                                                                                          |
| Rated Capacity            | 104Ah                                                                                                                                                          |
| Operating Voltage         | 42V~58.4V                                                                                                                                                      |
| Standard Charging Current | 50A                                                                                                                                                            |
| Max. Charging Current     | 100A                                                                                                                                                           |
| Max. Discharge Current    | 100A                                                                                                                                                           |
| Working Temperature       | 0~40℃(Charging)-20~40℃(Discharging)                                                                                                                            |
| Storage Temperature       | 65%±20RH-10℃~35℃(1 month)25℃±2(3 months)                                                                                                                       |
| Communication             | CAN/RS485                                                                                                                                                      |
| Cycle Life                | >6000 cycles@25℃50A charge and discharge 90%DOD                                                                                                                |
| Altitude                  | 0~3000                                                                                                                                                         |
| Waterproof Level          | IP20                                                                                                                                                           |
| Humidity Range            | 5%~80%                                                                                                                                                         |
| Packaging Information     | Net size: 580*460*172.4mm<br>Carton packing: 630*500*260mm<br>Pallet(1*1.1*1.2m)per pallet: 14 boxes<br>20-foot container: 150boxes40-foot container: 300boxes |
| Weight/kg                 | Net weight: 48±3 Packing weight: 50                                                                                                                            |



## DHLV-LFP-5000

### Wall-Mounted Residential ESS



**Safety**  
-LiFePO4 safe battery chemistry  
-Smart built-in BMS and comprehensive hardware protection



**Expandability**  
-Support up to 6 PACKs in parallel connection



**Accuracy**  
-Dynamic SOC calibration



**Durability**  
6,000 cycles at 95% DOD



**Compatibility**  
-Compatible with most mainstream inverters  
-Compact furniture style, suitable for wall mounting that saves installation space



**Certificates**  
CE, IEC62619, UN38.3, MSDS

| Model                               | DHLV-LFP-5000                                                                                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total Energy                        | 5.22kwh                                                                                                                                                                    |
| Usable Energy*                      | 4.96kWh                                                                                                                                                                    |
| Voltage Range                       | 44.8~57.6V                                                                                                                                                                 |
| Rated Capacity                      | 102Ah                                                                                                                                                                      |
| Nominal Voltage                     | 51.2V                                                                                                                                                                      |
| Max. Charge Voltage                 | 57.6V                                                                                                                                                                      |
| Nominal Charging Current            | 50A                                                                                                                                                                        |
| Max. continuous charging current    | 50A                                                                                                                                                                        |
| Nominal Discharge Current           | 80A                                                                                                                                                                        |
| Max. continuous discharging current | 80A                                                                                                                                                                        |
| DOD                                 | 95%                                                                                                                                                                        |
| Communication Interface             | CAN/RS485/WiFi                                                                                                                                                             |
| Max parallel quantity               | 6                                                                                                                                                                          |
| Dimension(L*W*H)                    | (420±2)*(161±2)*(640±2)(mm)                                                                                                                                                |
| Net Weight                          | (45±1)(kg)                                                                                                                                                                 |
| Operating Condition                 | Indoor                                                                                                                                                                     |
| Storage Temperature Range           | When the storage time is less than 3 months, it is recommended to store at a temperature of 0-45 °C, ≤ 90% RH, and an SOC range of 20%-50% SOC                             |
|                                     | When the storage time is more than 3 months, it is recommended to store at a temperature of 15-30 °C, < 90% RH, and an SOC range of 20%-50% SOC                            |
|                                     | When the storage time exceeds 6 months, it is necessary to adjust the SOC of the battery cell to 20- 50% SOC, ≤ 90% RH, and the recommended storage temperature is 5-25 °C |
|                                     | High SOC(>50% SOC) storage is not allowed during storage, and full charge storage is prohibited.                                                                           |
| Operating Temperature               | Charging 0~55 °C                                                                                                                                                           |
|                                     | Discharging -15~55 °C                                                                                                                                                      |
| Humidity                            | 15%~85%(RH)(No Condensation)                                                                                                                                               |
| Cooling Type                        | Natural                                                                                                                                                                    |
| IP Rating of Enclosure              | IP20                                                                                                                                                                       |
| Configuration                       | 16S                                                                                                                                                                        |
| Class of Protection                 | Class I                                                                                                                                                                    |
| Installation Method                 | Wall-mounted/Floor-standing                                                                                                                                                |
| Supply Connection                   | Fixed power cord                                                                                                                                                           |
| Authentication Level                | UN38.3/CE -EMC/CE-RED/CB-IEC62619                                                                                                                                          |

## DHJ5120-J1

### Rack-Mounted Residential ESS



**Safety**  
LFP Battery, Intelligent BMS and protective hardware providing complete protection



**Expandability**  
Support parallel connection number up to 10



**Accuracy**  
Dynamic SOC calibration



**Durability**  
6,000 cycles at 90% DOD, 15+ years design life



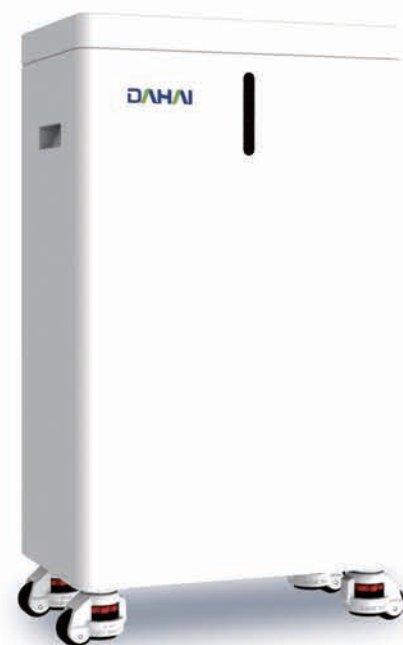
**Compatibility**  
Suitable for most mainstream inverters



**Certificates**  
UL, CE, IEC62619, UN38.3, MSDS

| Model                           | DHJ5120-J1                                                             |
|---------------------------------|------------------------------------------------------------------------|
| Battery Type                    | LFP                                                                    |
| Total Energy                    | 5.22kWh                                                                |
| Usable Energy                   | 4.96kWh                                                                |
| Voltage                         | 51.2V                                                                  |
| Cell Capacity                   | 102Ah                                                                  |
| Max. Parallel Connection Number | 10P                                                                    |
| Max. Charging Voltage           | 57.6V                                                                  |
| Nominal Charging Current        | 50A(single) /110A(multiple in parallel)                                |
| Nominal Discharging Current     | 80A(single)/110A(multiple in parallel)                                 |
| Discharge Cut-off Voltage       | 48V                                                                    |
| Battery Efficiency              | 95%                                                                    |
| Max. Recommended DOD            | 95%                                                                    |
| Communication                   | RS485/CAN                                                              |
| IP Rating                       | IP20                                                                   |
| Operating Temperature           | -10~50°C                                                               |
| Cooling Type                    | Natural cooling                                                        |
| Altitude                        | ≤5,000m                                                                |
| Humidity                        | 5%~95%(No condensed water)                                             |
| Battery Protection              | Over-current/Over-voltage/Short-circuit/Under-voltage/Over temperature |
| Warranty                        | 10 years                                                               |
| Dimension                       | 560*390*131mm                                                          |
| Net Weight                      | 45kg                                                                   |
| Case Material                   | Metal                                                                  |
| Color                           | Black                                                                  |
| Installation                    | Ground Installation                                                    |





## DH-WLL010D1

### Floor-standing Residential ESS

#### Safety

- LiFePO4 safe battery chemistry of higher energy density
- Smart built-in BMS and comprehensive hardware protection

#### Expandability

- Support up to 6 packs in parallel connection
- Easy installation for larger capacity

#### Compatibility

- Compatible with most mainstream inverters
- IP66 for outdoor installation
- Heating function that ensures fault-free operation under -15℃ ambient temperature.

#### Certifications

CE-EMC/CE-RED/IEC62619/UN38.3/MSDS

| Model                       | DH-WLL010D1                                                             |
|-----------------------------|-------------------------------------------------------------------------|
| Total Energy                | 10.49kWh                                                                |
| Usable Energy(DC)           | 9.97kWh                                                                 |
| Voltage                     | 44.8~57.6Vdc                                                            |
| Nominal Voltage             | 51.2Vdc                                                                 |
| Rated Capacity              | 205Ah                                                                   |
| Max. Charge Voltage         | 57.6Vdc                                                                 |
| Nominal Discharging Current | 100A                                                                    |
| Nominal Charging Current    | 100A                                                                    |
| Weight                      | 90±3kg                                                                  |
| Dimension(mm)(L*W*H)        | (430+2)*(232+2)*(670+2)                                                 |
| Max.recommended DOD         | 95%                                                                     |
| Operating Condition         | Indoor/Outdoor                                                          |
| Operating Temperature       | Charge 0~52℃<br>Discharge -15~52℃                                       |
| Storage Temperature Range   | -35~60℃, (30%~50%SOC,<3 months)                                         |
| Humidity                    | 5% ~ 85%(RH)(No Condensation)                                           |
| Over Voltage Category       | II                                                                      |
| Cooling Type                | Natural cooling                                                         |
| Case Material               | Metal                                                                   |
| Installation                | Floor-standing                                                          |
| IP Rating                   | IP 66                                                                   |
| Electric Heating            | Yes                                                                     |
| Heating Film (Optional)     | 130W                                                                    |
| Screen (Optional)           | LED                                                                     |
| Protective Class            | I                                                                       |
| Max. Connection Number      | 6P                                                                      |
| Communication               | CAN/RS485/WiFi                                                          |
| Battery Protection          | Over-current/Over-voltage/Short circuit/ Under-voltage/Over-temperature |
| Certificates                | IEC62619/CE/UN38.3/MSDS                                                 |
| Warranty                    | 10 years                                                                |



## DH-314T16R



| Model                               | DH-314T16R                                              |
|-------------------------------------|---------------------------------------------------------|
| Rated Energy(kWh)                   | 16.076KWh                                               |
| Configuration                       | 1 P16S                                                  |
| Nominal Voltage(V)                  | 51.2V                                                   |
| Working Voltage( V)                 | 45.2V~57.2V                                             |
| Nominal Capacity(Ah)                | 31 4 Ah                                                 |
| Rated Charge/ Discharge Current( A) | 150A @25+2℃                                             |
| Maximum Charging Current            | 200A@25±2℃                                              |
| Maximum Discharge Current           | 200A @25+ 2℃                                            |
| Working Temperature                 | 0-40℃(Charge)-20-40℃( Discharge)                        |
| Humidity(%)                         | 5~80%                                                   |
| Altitude Limited( m)                | 0-3000m                                                 |
| Weight(Kg)                          | 1 23Kg± 3kg                                             |
| Dimension(mm)                       | 817x41 5x267mm                                          |
| Cycle Life                          | 6000 cycles @25℃150ACharge and discharge current 80%DOD |
| IP Grade                            | IP20                                                    |
| Communication Mode                  | CAN&RS485                                               |





# DH-LFP-VLV (5-30kWh)

## Vertical Residential All-in-One ESS



| Model                                 | Ares 3KAL  | Ares 3.6KAL | Ares 4KAL  | Ares 4.6KAL                                                 | Ares 5KAL  | Ares 5.5KAL | Ares 6KAL  |
|---------------------------------------|------------|-------------|------------|-------------------------------------------------------------|------------|-------------|------------|
| <b>PV Input</b>                       |            |             |            |                                                             |            |             |            |
| Max. Input Power                      | 4.5kW      | 5.4kW       | 6.0kW      | 6.9kW                                                       | 7.5kW      | 8.3kW       | 9.0kW      |
| Max. PV Voltage                       |            |             |            | 550V                                                        |            |             |            |
| MPPT Range                            |            |             |            | 80-500V                                                     |            |             |            |
| Full MPPT Range                       | 90-500V    | 110-500V    | 120-500V   | 130-500V                                                    | 150-500V   | 160-500V    | 170-500V   |
| Normal Voltage                        |            |             |            | 360V                                                        |            |             |            |
| Startup Voltage                       |            |             |            | 100V                                                        |            |             |            |
| Max. Input Current                    |            |             |            | 18.5x2A                                                     |            |             |            |
| Max. Short Current                    |            |             |            | 26x 2A                                                      |            |             |            |
| No. of MPP Tracker / No. of PV String |            |             |            | 2/2                                                         |            |             |            |
| <b>Battery Port</b>                   |            |             |            |                                                             |            |             |            |
| Max. Charge/Discharge Power           | 3.0kW      | 3.6kW       | 4.0kW      | 4.6kW                                                       | 5.0kW      | 5.5kW       | 6.0kW      |
| Max. Charge/Discharge Current         |            | 80A         |            |                                                             | 120A       |             |            |
| Battery Normal Voltage                |            |             |            | 51.2Vd.c.                                                   |            |             |            |
| Battery Voltage Range                 |            |             |            | 40- 60Vd.c.                                                 |            |             |            |
| Battery Type                          |            |             |            | Li-ion / Lead-acid etc.                                     |            |             |            |
| <b>AC Grid</b>                        |            |             |            |                                                             |            |             |            |
| Max. Continuous Current               | 14.0A      | 17.0A       | 19.0A      | 22.0A                                                       | 23.0A      | 26.0A       | 28.0A      |
| Max. Continuous Power                 | 3.0kVA     | 3.6kVA      | 4.0kVA     | 4.6kVA                                                      | 5.0kVA     | 5.5kVA      | 6.0kVA     |
| Nominal Grid Current                  | 13.7/13.1A | 16.4/15.7A  | 18.2/17.4A | 21.0/20.0A                                                  | 22.8/21.8A | 25.0/24.0A  | 27.3/26.1A |
| Nominal Grid Voltage                  |            |             |            | 198 to 242 @ 220/207 to 253 @ 230 V                         |            |             |            |
| Nominal Grid Frequency                |            |             |            | 50/60 Hz                                                    |            |             |            |
| Power Factor                          |            |             |            | 0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited) |            |             |            |
| Current THD                           |            |             |            | <3%                                                         |            |             |            |
| <b>AC Load Output(Back-up)</b>        |            |             |            |                                                             |            |             |            |
| Max. Continuous Current               | 14.0A      | 17.0A       | 19.0A      | 22.0A                                                       | 23.0A      | 26.0A       | 28.0A      |
| Max. Continuous Power                 | 3.0kVA     | 3.6kVA      | 4.0kVA     | 4.6kVA                                                      | 5.0kVA     | 5.5kVA      | 6.0kVA     |
| Max. Peak Current (10min)             | 20.5/19.6A | 24.6/23.5A  | 27.3/26.1A | 31.4/30A                                                    | 34.1/32.7A | 37.8/36.1A  | 41.0/39.2A |
| Max. Peak Power (10min)               | 4.5kVA     | 5.4kVA      | 6.0kVA     | 6.9kVA                                                      | 7.5kVA     | 8.3kVA      | 9.0kVA     |
| Nominal AC Voltage L-N                |            |             |            | 220/230Vd.c.                                                |            |             |            |
| Nominal AC Frequency                  |            |             |            | 50/60 Hz                                                    |            |             |            |
| Switching Time                        |            |             |            | <10ms                                                       |            |             |            |
| Voltage THD                           |            |             |            | <3c                                                         |            |             |            |
| <b>Efficiency</b>                     |            |             |            |                                                             |            |             |            |
| CEC Efficiency                        |            | 97.0 %      |            |                                                             |            | 98.1 %      |            |
| Max. Efficiency                       |            | 97.6 %      |            |                                                             |            | 98.1 %      |            |
| PV to Bat. Efficiency                 |            | 98.1 %      |            |                                                             |            | 98.1 %      |            |
| Bat. between AC Efficiency            |            | 96.8 %      |            |                                                             |            | 96.8 %      |            |

| Model                              | Ares 3KAL | Ares 3.6KAL | Ares 4KAL | Ares 4.6KAL                                                                                  | Ares 5KAL | Ares 5.5KAL | Ares 6KAL |
|------------------------------------|-----------|-------------|-----------|----------------------------------------------------------------------------------------------|-----------|-------------|-----------|
| <b>Protection</b>                  |           |             |           |                                                                                              |           |             |           |
| PV Reverse Polarity Protection     |           |             |           | Yes                                                                                          |           |             |           |
| Over Current/Voltage Protection    |           |             |           | Yes                                                                                          |           |             |           |
| Anti-Islanding Protection          |           |             |           | Yes                                                                                          |           |             |           |
| AC Short Circuit Protection        |           |             |           | Yes                                                                                          |           |             |           |
| Residual Current Detection         |           |             |           | Yes                                                                                          |           |             |           |
| Ground Fault Monitoring            |           |             |           | Yes                                                                                          |           |             |           |
| Insulation Resister Detection      |           |             |           | Yes                                                                                          |           |             |           |
| PV Arc Detection                   |           |             |           | Yes                                                                                          |           |             |           |
| Enclosure Protect Level            |           |             |           | IP65 / NEMA4X                                                                                |           |             |           |
| <b>General Data</b>                |           |             |           |                                                                                              |           |             |           |
| Dimensions (L*W*H)                 |           |             |           | 600x430x210mm                                                                                |           |             |           |
| Weight                             |           |             |           | 25kg                                                                                         |           |             |           |
| Topology                           |           |             |           | Transformerless                                                                              |           |             |           |
| Cooling                            |           |             |           | Intelligent Fan                                                                              |           |             |           |
| Relatively Humidity                |           |             |           | 0-10 0 %                                                                                     |           |             |           |
| Operating Temperature Range        |           |             |           | -25 to 60 ° C                                                                                |           |             |           |
| Operating Altitude                 |           |             |           | ≤2000 ° m                                                                                    |           |             |           |
| Noise Emission                     |           |             |           | <25dB                                                                                        |           |             |           |
| Standby Consumption                |           |             |           | <10W                                                                                         |           |             |           |
| Mounting                           |           |             |           | Wall Bracket                                                                                 |           |             |           |
| Communication with RSD             |           |             |           | SUNSPEC                                                                                      |           |             |           |
| Display & Communication Interfaces |           |             |           | LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G                                                        |           |             |           |
| Certification & Approvals          |           |             |           | NRS097, G98/G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2 |           |             |           |
| EMC                                |           |             |           | EN61000-6-2, EN61000-6-3                                                                     |           |             |           |

| Battery Cell Technology           | DH-LFP-VLV                     |                                |                                 |                                                                                      |                                 |                                 |
|-----------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------------------------------------------------------------|---------------------------------|---------------------------------|
| Number of Pack                    | 1pcs                           | 2pcs                           | 3pcs                            | 4pcs                                                                                 | 5pcs                            | 6pcs                            |
| Usable Energy*                    | 4.87kWh                        | 9.73kWh                        | 14.6kWh                         | 19.46kWh                                                                             | 24.32kWh                        | 29.19kWh                        |
| Voltage Range                     |                                |                                |                                 | 44.8 ~ 57.6Vd.c                                                                      |                                 |                                 |
| Nominal Voltage                   |                                |                                |                                 | 51.2Vd.c.                                                                            |                                 |                                 |
| Max. Charge Voltage               |                                |                                |                                 | 57.6Vd.c.                                                                            |                                 |                                 |
| Max. Continuous Charging Current  | 50A                            | 100A                           | 150A                            | 160A                                                                                 | 160A                            | 160A                            |
| Max. Continuous Discharge Current | 50A                            | 100A                           | 150A                            | 160A                                                                                 | 160A                            | 160A                            |
| DOD                               |                                |                                |                                 | 95%                                                                                  |                                 |                                 |
| Communication                     |                                |                                |                                 | CAN/WIFI                                                                             |                                 |                                 |
| Dimension(L*W*H)                  | (600±2) * (215±2) * (360±3) mm | (600±2) * (215±2) * (680±5) mm | (600±2) * (215±2) * (1000±7) mm | (600±2) * (215±2) * (1320±9) mm                                                      | (600±2) * (215±2) * (1640±9) mm | (600±2) * (215±2) * (1960±9) mm |
| Net Weight                        | (49±2) kg                      | (95±4) kg                      | (141±6) kg                      | (187±6 ) kg                                                                          | (234±6) kg                      | (280±6) kg                      |
| Operating Condition               |                                |                                |                                 | Indoor or outdoor                                                                    |                                 |                                 |
| Operating Charging Temperature    |                                |                                |                                 | 0~50 °C                                                                              |                                 |                                 |
| Discharging Temperature           |                                |                                |                                 | -15~50 °C                                                                            |                                 |                                 |
| Humidity                          |                                |                                |                                 | 15% ~ 85% RH (No Condensation)                                                       |                                 |                                 |
| Cooling Type                      |                                |                                |                                 | Natural                                                                              |                                 |                                 |
| Installation Method               |                                |                                |                                 | IP66                                                                                 |                                 |                                 |
| Heating film power(W)(optional)   |                                |                                |                                 | Stacked installation                                                                 |                                 |                                 |
| Supply connection                 |                                |                                |                                 | 130W                                                                                 |                                 |                                 |
| WiFi                              |                                |                                |                                 | Fixed power cord                                                                     |                                 |                                 |
| Warranty                          |                                |                                |                                 | Yes                                                                                  |                                 |                                 |
| Configuration                     |                                |                                |                                 | 10 years (5 free warranty + 5 paid warranty)                                         |                                 |                                 |
|                                   |                                |                                |                                 | IEC62619,IEC63056,IEC61000-6-1,IEC61000-6-3,IEC62477-1,IEC60730,IEC62040,UN38.3,MSDS |                                 |                                 |





# DH-LFP-VHV (9-23kWh)

## VERTICAL RESIDENTIAL

### All-in-One ESS – HV Series



| Model                                         | DH-LFP-VHV-9                                 | DH-LFP-VHV-13                              | DH-LFP-VHV-18                               | DH-LFP-VHV-23                               |
|-----------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|
| Number of Pack (pcs)                          | 2                                            | 3                                          | 4                                           | 5                                           |
| Total Energy (kWh)                            | 9.21                                         | 13.82                                      | 18.43                                       | 23.04                                       |
| Usable Energy* (kWh)                          | 8.74                                         | 13.12                                      | 17.50                                       | 21.88                                       |
| Voltage Range (Vd.c)                          | 112~144                                      | 168~216                                    | 224~288                                     | 280~360                                     |
| Nominal Voltage (V)                           | 128                                          | 192                                        | 256                                         | 320                                         |
| Charging Voltage Declared by Manufacturer (V) | 144                                          | 216                                        | 288                                         | 360                                         |
| Nominal Charging Current (A)                  |                                              | 30                                         |                                             |                                             |
| Nominal Discharge Current (A)                 |                                              | 30                                         |                                             |                                             |
| DOD (%)                                       |                                              | 95                                         |                                             |                                             |
| Communication                                 |                                              | CAN/RS485                                  |                                             |                                             |
| Dimension ((L*W*H),mm)                        | (600±2)*<br>(210±2)*<br>(610±3)<br>(105±2)   | (600±2)*<br>(210±2)*<br>(895±5)<br>(149±4) | (600±2)*<br>(210±2)*<br>(1180±7)<br>(193±6) | (600±2)*<br>(210±2)*<br>(1465±9)<br>(237±6) |
| Operating Condition                           | Indoor or outdoor                            |                                            |                                             |                                             |
| Storage Temperature Range                     | > 1 month 0~35°C; ≤ 1 month -20~45°C         |                                            |                                             |                                             |
| Operating Charging Temperature                | 0~55 °C                                      |                                            |                                             |                                             |
| Discharging Temperature                       | 0~55 °C                                      |                                            |                                             |                                             |
| Humidity                                      | 15% ~ 85%RH(No condensation)                 |                                            |                                             |                                             |
| Cooling Type                                  | Natural                                      |                                            |                                             |                                             |
| IP Rating of Enclosure                        | IP66                                         |                                            |                                             |                                             |
| Installation Method                           | Stacked installation                         |                                            |                                             |                                             |
| Warranty                                      | 10 years (5 free warranty + 5 paid warranty) |                                            |                                             |                                             |
| Battery Module Type                           | DH-LFP-VHV                                   |                                            |                                             |                                             |
| Total Energy                                  | 4.60kWh                                      |                                            |                                             |                                             |
| Usable Energy*                                | 4.37kWh                                      |                                            |                                             |                                             |
| Voltage Range                                 | 56~72Vd.c                                    |                                            |                                             |                                             |
| Nominal Voltage                               | 64V                                          |                                            |                                             |                                             |
| Charging Voltage Declared by Manufacturer     | 72V                                          |                                            |                                             |                                             |
| Upper Limit Charging Voltage                  | 73V                                          |                                            |                                             |                                             |
| Discharge Cut-off Voltage                     | 56V                                          |                                            |                                             |                                             |
| Lower Limit Discharging Voltage               | 52V                                          |                                            |                                             |                                             |
| Max. Continuous Charging Current              | 30A                                          |                                            |                                             |                                             |
| Max. Continuous Discharge Current             | 30A                                          |                                            |                                             |                                             |
| DOD                                           | 95%                                          |                                            |                                             |                                             |
| Dimension ((L*W*H),mm)                        | (600±2) * (210±2) * (285±2)                  |                                            |                                             |                                             |
| Net Weight                                    | (44±2) kg                                    |                                            |                                             |                                             |

| Battery Module Type                 | DH-LFP-VHV                                                                            |            |            |            |            |             |             |             |
|-------------------------------------|---------------------------------------------------------------------------------------|------------|------------|------------|------------|-------------|-------------|-------------|
| Operating Condition                 | Indoor or outdoor                                                                     |            |            |            |            |             |             |             |
| Operating Charging Temperature      | 0~55°C                                                                                |            |            |            |            |             |             |             |
| Discharging Temperature             | 0~55°C                                                                                |            |            |            |            |             |             |             |
| Humidity                            | 15% ~ 85%RH(No Condensation)                                                          |            |            |            |            |             |             |             |
| Configuration                       | (10S)2S                                                                               |            |            |            |            |             |             |             |
| Warranty                            | 10 years (5 free warranty+5 paid warranty)                                            |            |            |            |            |             |             |             |
| PV Input                            |                                                                                       |            |            |            |            |             |             |             |
| Max. DC Input Power (kW)            | 5                                                                                     | 6          | 7.5        | 9          | 12         | 15          | 18          | 22.5        |
| Max. PV Voltage (V)                 | 1000                                                                                  |            |            |            |            |             |             |             |
| Rated DC Input Voltage (V)          | 620                                                                                   |            |            |            |            |             |             |             |
| DC Input Voltage Range (V)          | 150-1000                                                                              |            |            |            |            |             |             |             |
| MPPT Voltage Range (V)              | 150-850                                                                               |            |            |            |            |             |             |             |
| Full MPPT Range (V)                 | 200-850                                                                               |            |            |            |            |             |             |             |
| Start-up Voltage (V)                | 160                                                                                   |            |            |            |            |             |             |             |
| Max. DC Input Current (A)           | 20x2                                                                                  |            |            |            |            |             |             |             |
| Max. Short Current (A)              | 30x2                                                                                  |            |            |            |            |             |             |             |
| No. of MPPT Tracker/Strings         | 2/2                                                                                   |            |            |            |            |             |             |             |
| Battery Port                        |                                                                                       |            |            |            |            |             |             |             |
| Battery Nominal Voltage (V)         | 150                                                                                   | 200        | 200        | 250        | 300        | 350         | 450         | 500         |
| Battery Voltage Range (V)           | 80-600                                                                                |            |            |            |            |             |             |             |
| Max. Charge/Discharge Current (A)   | 30                                                                                    |            |            |            |            |             |             |             |
| Max. Charge/Discharge Power (kW)    | 3                                                                                     | 4          | 5          | 6          | 8          | 10          | 12          | 15          |
| Charging Curve                      | 3 Stages                                                                              |            |            |            |            |             |             |             |
| Compatible Battery Type             | Li-ion / Sodium-ion battery                                                           |            |            |            |            |             |             |             |
| AC Grid                             |                                                                                       |            |            |            |            |             |             |             |
| Nominal AC Output Power (kW)        | 3                                                                                     | 4          | 5          | 6          | 8          | 10          | 12          | 15          |
| Max. AC Input/Output Power (kVA)    | 4.5/3.3                                                                               | 6/4.4      | 7.5/5.5    | 9/6.6      | 12/8.8     | 15/11       | 18/13.2     | 22.5/16.5   |
| Max. AC Output Current (A)          | 5.3                                                                                   | 7          | 8.5        | 10.5       | 13.5       | 17          | 21.5        | 27          |
| Nominal AC Voltage (V)              | 230/400                                                                               |            |            |            |            |             |             |             |
| Nominal AC Frequency (Hz)           | 50/60                                                                                 |            |            |            |            |             |             |             |
| Power Factor                        | 1 (-0.8-0.8) adjustable                                                               |            |            |            |            |             |             |             |
| Current THD (%)                     | < 3%                                                                                  |            |            |            |            |             |             |             |
| AC Load Output (Back-up)            |                                                                                       |            |            |            |            |             |             |             |
| Nominal Output Power (VA)           | 3000                                                                                  | 4000       | 5000       | 6000       | 8000       | 10000       | 12000       | 15000       |
| Nominal Output Voltage (V)          | 230/400                                                                               |            |            |            |            |             |             |             |
| Nominal Output Frequency (Hz)       | 50/60                                                                                 |            |            |            |            |             |             |             |
| Nominal Output Current (A)          | 4.4                                                                                   | 5.8        | 7.3        | 8.7        | 11.6       | 14.5        | 17.4        | 21.8        |
| Peak Output Power                   | 3300VA,60s                                                                            | 4400VA,60s | 5500VA,60s | 6600VA,60s | 8800VA,60s | 11000VA,60s | 13200VA,60s | 16500VA,60s |
| THDV (with linear load)             | <3%                                                                                   |            |            |            |            |             |             |             |
| Switching Time (ms)                 | <10                                                                                   |            |            |            |            |             |             |             |
| Efficiency                          |                                                                                       |            |            |            |            |             |             |             |
| Europe Efficiency                   |                                                                                       |            |            |            |            |             |             |             |
| Max. Efficiency                     | 98.00%                                                                                |            |            |            |            |             |             |             |
| Battery Charge/Discharge Efficiency | 98.00%                                                                                |            |            |            |            |             |             |             |
| Protection                          |                                                                                       |            |            |            |            |             |             |             |
| Reverse Polarity Protection         | Yes                                                                                   |            |            |            |            |             |             |             |
| Over Current / Voltage Protection   | Yes                                                                                   |            |            |            |            |             |             |             |
| Anti-islanding Protection           | Yes                                                                                   |            |            |            |            |             |             |             |
| AC Short-circuit Protection         | Yes                                                                                   |            |            |            |            |             |             |             |
| Leakage Current Detection           | Yes                                                                                   |            |            |            |            |             |             |             |
| Ground Fault Monitoring             | Yes                                                                                   |            |            |            |            |             |             |             |
| Grid Monitoring                     | Yes                                                                                   |            |            |            |            |             |             |             |
| Enclosure Protect Level             | IP66                                                                                  |            |            |            |            |             |             |             |
| General Data                        |                                                                                       |            |            |            |            |             |             |             |
| Dimensions ((L*W*H),mm)             | 600 * 432 * 210                                                                       |            |            |            |            |             |             |             |
| Weight (kg)                         | 25                                                                                    |            |            |            |            |             |             |             |
| Topology                            | Transformerless                                                                       |            |            |            |            |             |             |             |
| Cooling Concept                     | Natural Convection                                                                    |            |            |            |            |             |             |             |
| Relatively Humidity                 | 0-100%                                                                                |            |            |            |            |             |             |             |
| Operating Temperature Range (°C)    | -25 to 60°C                                                                           |            |            |            |            |             |             |             |
| Operating Altitude (m)              | <4000                                                                                 |            |            |            |            |             |             |             |
| Noise Emission (dB)                 | <40                                                                                   |            |            |            |            |             |             |             |
| Standby Consumption (W)             | <5                                                                                    |            |            |            |            |             |             |             |
| Display & Communication Interfaces  | LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G                                                 |            |            |            |            |             |             |             |
| Certification & Approvals           | NRS097,G98/G99,EN50549-1,C10/C11,AS4777.2,VDE-AR-N4105,VDE0126, IEC62109-1, EC62109-2 |            |            |            |            |             |             |             |
| EMC                                 | EN61000-6-2,EN61000-6-3                                                               |            |            |            |            |             |             |             |





# DH-X-HV-460V206AH

## High Voltage Stackable Energy Storage System

**Smart Control**  
Advanced BMS with real-time monitoring and remote management  
CAN 2.0 communication protocol for transparent data control

**Flexible Architecture**  
4-6 module flexible configuration (64-96kWh capacity range)  
Modular design saves installation space

**High Efficiency & Reliability**  
460V high-voltage architecture reduces transmission loss  
8,000 cycle life ensures long-term value  
Multiple protection mechanisms (overcharge/discharge/current)

**Typical Applications**  
Commercial peak shaving  
Premium residential energy independence  
PV system energy storage

| PDU                            | HV-PDU 1000VDC103A(WIFI) |
|--------------------------------|--------------------------|
| Operating Voltage              | 250~1000V                |
| Rated Charge/Discharge Current | 120A                     |
| Max.Charge/Discharge Current   | 130A                     |
| Operating Temperature Range    | -10°C~55°C               |
| Weight                         | ≈28kg                    |
| Waterproof Rating              | IP20                     |
| Dimensions (W x D x H)         | 558*695*235mm            |



| Module                         | HV-Tower-76.8V206Ah |
|--------------------------------|---------------------|
| Battery Type                   | LiFePO4(LFP)        |
| Rated Voltage                  | 76.8Vdc             |
| Rated Capacity                 | 206Ah               |
| Rated Energy                   | 16kWh               |
| Rated Charge/Discharge Current | 120A                |
| Max. Charge/Discharge Current  | 130A                |
| Operating Temperature Range    | -10°C~55°C          |
| Waterproof Rating              | IP20                |
| Weight                         | ≈125kg              |
| Dimensions (W x D x H)         | 559*690*235mm       |

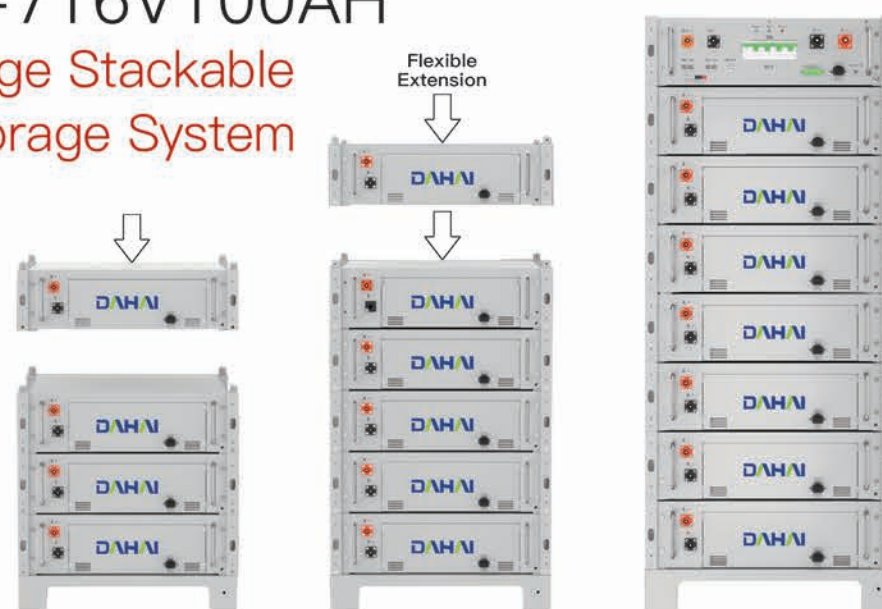


| Model                                             |                  | DH-X-HV- 460V206Ah                                                                                         |         |             |
|---------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------|---------|-------------|
| Main Parameter                                    |                  |                                                                                                            |         |             |
| Battery Type                                      |                  | LiFePO4                                                                                                    |         |             |
| Module Nominal Energy(kWh)                        |                  | 16                                                                                                         |         |             |
| Mini. Energy of Module (kwh)                      |                  | 15.5                                                                                                       |         |             |
| Module Nominal Voltage (V)                        |                  | 76.8                                                                                                       |         |             |
| Rated Capacity(Ah)                                |                  | 206                                                                                                        |         |             |
| No. of System Module Series Connections (Opfonal) |                  | 4                                                                                                          | 5       | 6           |
| Rated Voltage of the System(V)                    |                  | 307.2                                                                                                      | 384     | 460.8       |
| System Working Voltage(V)                         |                  | 268.8-345.6                                                                                                | 336-432 | 403.2-518.4 |
| System Nominal Energy(kVWh)                       |                  | 64                                                                                                         | 80      | 96          |
| Mini. Discharge Energy of the System (kWh)        |                  | 60.74                                                                                                      | 75.93   | 91.12       |
| Charge/Discharge Current (A)                      | Rated Current    | 120                                                                                                        |         |             |
|                                                   | Max. Current     | 130                                                                                                        |         |             |
|                                                   | Overload Current | 150(10sec,25°C)                                                                                            |         |             |
| Status Indicator Light                            |                  | Blue: Battery system start status, green: Battery system operation status, Red:Battery system fault status |         |             |
| Communication Protocol                            |                  | CAN2.0                                                                                                     |         |             |
| Operating Temperature Range (°C)                  |                  | -10°C - 55°C                                                                                               |         |             |
| Operating Humidity Range                          |                  | ≤95% (No condensation)                                                                                     |         |             |
| Operating Altitude                                |                  | ≤2000m                                                                                                     |         |             |
| System Cooling Method                             |                  | Fan cooling                                                                                                |         |             |
| Waterproof Rating                                 |                  | IP20                                                                                                       |         |             |
| Installation Place                                |                  | Indoors                                                                                                    |         |             |
| Net Weight (kg)                                   |                  | ≈528-778                                                                                                   |         |             |
| Dimensions (mm)                                   |                  | 676*1800*707                                                                                               |         |             |
| Storage Temperature(°C)                           |                  | 0~35                                                                                                       |         |             |
| Recommended Depth of Discharge (DOD)              |                  | 90%                                                                                                        |         |             |
| Fire Protection System                            |                  | Aerosol (optional)                                                                                         |         |             |
| Cycle Life                                        |                  | ≥8000 Cycles (25°C±2°C, 0.5C, 80%DOD@65%EOL)                                                               |         |             |
| Certification                                     |                  | 5 Years(Under Warranty Terms)                                                                              |         |             |
| Energy Throughput <sup>[1]</sup>                  |                  | 133MWh                                                                                                     | 166MWh  | 200MWh      |
| Certification                                     |                  | Cell: UL 1973/IEC62619/CE/ROHS/MSDS/UN38.3                                                                 |         |             |



# DH-X-HV-716V100AH

## High Voltage Stackable Energy Storage System



| Model | HV-PDU 1000VDC100A(WIFI) (A06) |
|-------|--------------------------------|
|-------|--------------------------------|

|                                |               |
|--------------------------------|---------------|
| Operating Voltage              | 250~1000Vdc   |
| Rated Charge/Discharge Current | 50A           |
| Max. Charge/Discharge Current  | 100A          |
| Operating Temperature Range    | -10°C~55°C    |
| Waterproof Rating              | IP20          |
| Dimension(Wide*Depth*High)     | 517*745*155mm |
| Weight                         | ~22kg         |
| Parallel Connection            | Support       |



| Model | HV-Tower-32S100 |
|-------|-----------------|
|-------|-----------------|

|                                |               |
|--------------------------------|---------------|
| Battery Type                   | LiFePO4(LFP)  |
| Rated Voltage                  | 102.4Vdc      |
| Rated Capacity                 | 100Ah         |
| Rated power                    | 10.24kW       |
| Rated Charge/Discharge Current | 50A           |
| Max. Charge/Discharge Current  | 100A          |
| Operating Temperature Range    | -10°C~55°C    |
| Waterproof Rating              | IP20          |
| Dimensions (W*D*H)             | 517*745*155mm |
| Weight                         | ~88kg         |



| Model                                             |                  | DH-X-HV-Series                                                                                            |             |         |             |             |
|---------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------|-------------|---------|-------------|-------------|
| Main Parameter                                    |                  |                                                                                                           |             |         |             |             |
| Battery Type                                      |                  | LiFePO4                                                                                                   |             |         |             |             |
| Module Power(kWh)                                 |                  | 10.24                                                                                                     |             |         |             |             |
| Module Nominal Voltage(V)                         |                  | 102.4                                                                                                     |             |         |             |             |
| Rated Energy(Ah)                                  |                  | 100                                                                                                       |             |         |             |             |
| No of System Module Series Connections (Optional) |                  | 3                                                                                                         | 4           | 5       | 6           | 7           |
| System Rated Voltage(V)                           |                  | 307.2                                                                                                     | 409.6       | 512     | 614.4       | 716.8       |
| System Operation Voltage(V)                       |                  | 268.8-345.6                                                                                               | 358.4-460.8 | 448-576 | 537.6-691.2 | 672.2-806.4 |
| System Rated Power(kWh)                           |                  | 30.72                                                                                                     | 40.96       | 51.2    | 61.44       | 71.68       |
| System Discharge Power(kWh)                       |                  | 29.49                                                                                                     | 39.32       | 49.15   | 58.98       | 68.81       |
| Charge/Discharge Current (A)                      | Rated Current    | 50                                                                                                        |             |         |             |             |
|                                                   | Max. Current     | 100                                                                                                       |             |         |             |             |
|                                                   | Overload Current | 115(10sec,25°C)                                                                                           |             |         |             |             |
| Status Indicator Light                            |                  | Blue: battery system start status, green: battery system running status, red: battery system fault status |             |         |             |             |
| Communication Protocol                            |                  | CAN2.0                                                                                                    |             |         |             |             |
| Working Temperature Range                         |                  | -10°C- 55°C                                                                                               |             |         |             |             |
| Working Humidity Range                            |                  | ≤95% (No condensation)                                                                                    |             |         |             |             |
| Working Altitude                                  |                  | ≤2000m                                                                                                    |             |         |             |             |
| System Cooling Method                             |                  | Fan cooling                                                                                               |             |         |             |             |
| Waterproof Grade                                  |                  | IP20                                                                                                      |             |         |             |             |
| Installation Location                             |                  | Indoor                                                                                                    |             |         |             |             |
| Net Weight (kg)                                   |                  | 45+90*N(N is the number of modules)                                                                       |             |         |             |             |
| Max. Size (mm)                                    |                  | 765*577*1380                                                                                              |             |         |             |             |
| Storage Temperature                               |                  | 0~35                                                                                                      |             |         |             |             |
| Recommended Discharge Depth                       |                  | 90%                                                                                                       |             |         |             |             |
| Cycle Life                                        |                  | ≤8000 Cycles (25°C+2°C,0.5C,80%DOD@65%EOL)                                                                |             |         |             |             |
| Certification                                     |                  | Cell:UL1973/EC62619/UL9540A/TUV/CE/MSDS/UN38.3                                                            |             |         |             |             |
| Warranty                                          |                  | 5 Years(Under Warranty Terms)                                                                             |             |         |             |             |
| Energy Throughput                                 |                  | 67MWh                                                                                                     | 89MWh       | 112MWh  | 134MWh      | 156MWh      |





## DHV-DS-100

### Stack-Mounted Residential ESS



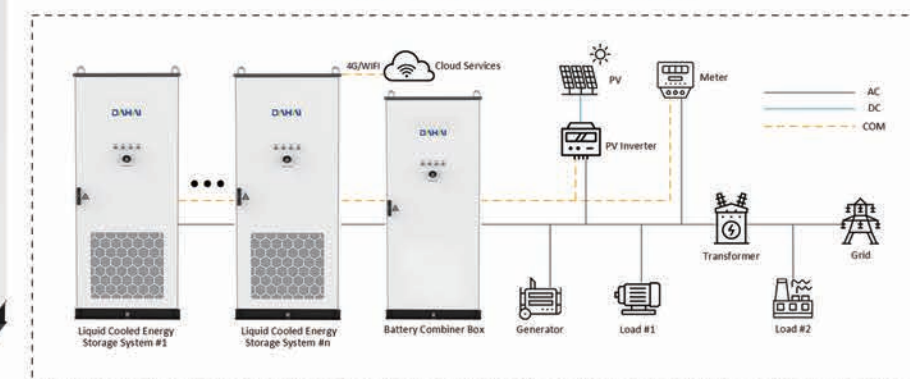
| Model                             | DHV-DS-100                                                                             |          |          |          |          |          |
|-----------------------------------|----------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|
| Battery Type                      | LFP                                                                                    |          |          |          |          |          |
| Number of Connection              | 2pcs                                                                                   | 3pcs     | 4pcs     | 5pcs     | 6pcs     | 7pcs     |
| Total Energy                      | 10.44kWh                                                                               | 15.67kWh | 20.89kWh | 26.11kWh | 31.33kWh | 36.56kWh |
| Usable Energy                     | 9.92kWh                                                                                | 14.88kWh | 19.85kWh | 24.81kWh | 29.77kWh | 34.73kWh |
| Max.Parallel Strings              | 3P                                                                                     |          |          |          |          |          |
| Voltage                           | 102.4V                                                                                 | 153.6V   | 204.8V   | 256V     | 307.2V   | 358.4V   |
| Nominal Charging Voltage          | 115.2V                                                                                 | 172.8V   | 230.4V   | 288V     | 345.6V   | 403.2V   |
| Max. Charging/Discharging Current | 50A                                                                                    |          |          |          |          |          |
| Discharge Cut-off Voltage         | 89.6V                                                                                  | 134.4V   | 179.2V   | 224V     | 268.8V   | 313.6V   |
| Battery Efficiency                | 95%                                                                                    |          |          |          |          |          |
| Maximum Recommended DOD           | 95%                                                                                    |          |          |          |          |          |
| Communication                     | RS485/CAN                                                                              |          |          |          |          |          |
| IP Rating                         | IP55                                                                                   |          |          |          |          |          |
| Operating Temperature             | -10~50°C                                                                               |          |          |          |          |          |
| Altitude                          | ≤5,000m                                                                                |          |          |          |          |          |
| Humidity                          | 5% ~ 95%                                                                               |          |          |          |          |          |
| Warranty                          | 10 years                                                                               |          |          |          |          |          |
| Dimension                         | 720*420*608mm 720*420*758mm 720*420*908mm 720*420*1058mm 720*420*1208mm 720*420*1358mm |          |          |          |          |          |
| Net Weight                        | 113kg                                                                                  | 163kg    | 213kg    | 263kg    | 313kg    | 363kg    |
| Certificates                      | CE, EMC, IEC62619, IEC62477, UN38.3, MSDS                                              |          |          |          |          |          |



## DH241/261L-125K

### Liquid-cooling Energy Storage Cabinet Solutions

### 261kWh/241kWh



| Model                           | DH241L-125K                                             | DH261L-125K         |
|---------------------------------|---------------------------------------------------------|---------------------|
| AC Coupling                     |                                                         |                     |
| Rated Output Power              | 125kW                                                   |                     |
| Overload Capacity               | 1.1x Continuous, 1.2x For 1 minute                      |                     |
| Rated voltage                   | 400V(-15%~15%)/3P+N+PE                                  |                     |
| Rated Output Current            | 180A                                                    |                     |
| Power Factor                    | -1~+1                                                   |                     |
| Grid Frequency Range            | 50Hz/60Hz±2.5Hz                                         |                     |
| Total Harmonic Distortion(THDI] | ≤3%                                                     |                     |
| AC Off -Grid Operatvon          |                                                         |                     |
| AC Voltage Range                | 400V/380V±3%                                            |                     |
| AC Off -Grid Frequency          | 50Hz/60Hz                                               |                     |
| Off - Grid Output THDU          | <3% With Linear Load                                    |                     |
| Unbalanced Load Capability      | 100%                                                    |                     |
| Battery Side                    |                                                         |                     |
| Cell Specification              | LFP 3.2V/314Ah                                          |                     |
| Battery RACK Configuration      | 1P240S                                                  | 1P260S              |
| System Capacity                 | 241kWh @ 25°C, 0.5P                                     | 261kWh @ 25°C, 0.5P |
| Voltage Range/Nominal Voltage   | 648-864V/768V                                           | 702-936V/832V       |
| Cycle Life                      | 8000Cycles(0.5P,25+2°C,@70%SOH)                         |                     |
| System Parameter                |                                                         |                     |
| Dimension(W*D*H)                | 1000*1350*2300mm                                        |                     |
| Weight                          | 2450kg                                                  | 2670kg              |
| Noise                           | <75dB                                                   |                     |
| IP rating                       | IP54(Pack:IP67)                                         |                     |
| System Efficiency               | ≥88%                                                    |                     |
| Environmental Temperature       | -20-55°C                                                |                     |
| Humidity                        | ≤95%                                                    |                     |
| Cooling Method                  | Liquid Cooling                                          |                     |
| Fire safety configuration       | Aerosol                                                 |                     |
| Communication Interface         | Ethernet/CAN/RS485                                      |                     |
| Maximum working altitude        | 2000m                                                   |                     |
| Compliant with standards        | GB/T 34120,GB/T 36276,IEC62477,IEC62619,IEC61000,UN38.3 |                     |

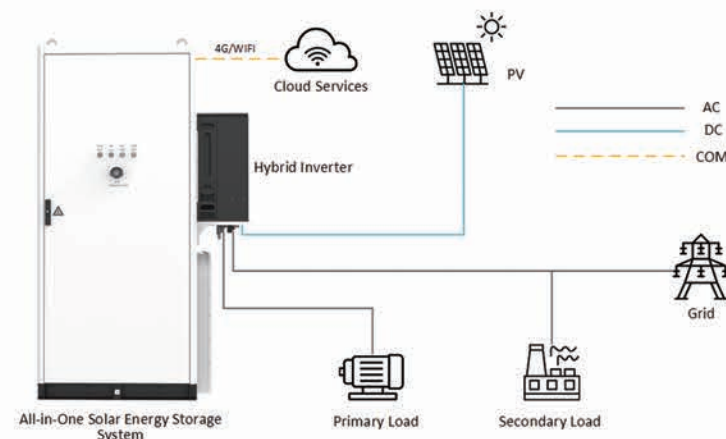




## DH261L-100KGC

### Liquid-cooling All-in-One PV-ESs

### 261kWh



| Model                                                          | DH261L-100KGC                       |
|----------------------------------------------------------------|-------------------------------------|
| <b>PV</b>                                                      |                                     |
| Maximum input power                                            | 156KW                               |
| maximum input voltage                                          | 1100V                               |
| MPPT operating voltage range/Rated voltage                     | 180-800V/550V                       |
| Start Voltage                                                  | 195V                                |
| Maximum input/short circuit current                            | 2×32A/2×40A                         |
| MPPT quantity                                                  | 10                                  |
| <b>Battery Side</b>                                            |                                     |
| Cell Specification                                             | LFP 3.2V/314Ah                      |
| Battery RACK Configuration                                     | 1P260S                              |
| System capacity                                                | 261kWh@25°C, 0.5P                   |
| Voltage range/Nominal Voltage                                  | 702-936V/832V                       |
| Cycle Life                                                     | 8000Cycles(0.5P,25+2°C,@70%SOH)     |
| <b>Ac grid connection side/ Ac off-network side</b>            |                                     |
| Rated Power                                                    | 100kW                               |
| Allowable Grid Voltage Range                                   | 400V(-15%~+15%)                     |
| Way of Connection                                              | 3P+N+PE                             |
| Allowable Grid Frequency Range                                 | 50/60Hz(45-55Hz,55-65Hz)            |
| Maximum current output                                         | 181.8A                              |
| <b>System Parameter</b>                                        |                                     |
| Off-grid switching time                                        | <20ms                               |
| Dimension(W*D*H) Including airconditioning and hybrid inverter | 1550*1300*2300mm Including Inverter |
| Weight                                                         | 2770kg                              |
| System Efficiency                                              | ≥88%                                |
| Environmental Temperature                                      | -20~55°C                            |
| Humidity                                                       | ≤95%                                |
| Cooling method                                                 | Liquid cooling                      |
| Fire safety configuration                                      | Aerosol                             |
| Communication Interface                                        | Ethernet/CAN/RS485                  |
| Compliant with standards                                       | GB/T 34120,GB/T 36276,UN38.3        |
| Maximum working altitude                                       | 2000m                               |



## BS07-265-ES-G

### Integrated PV-Storage-Genset

### Hybrid System

### 125kW/265kWh

125kW  
PCS

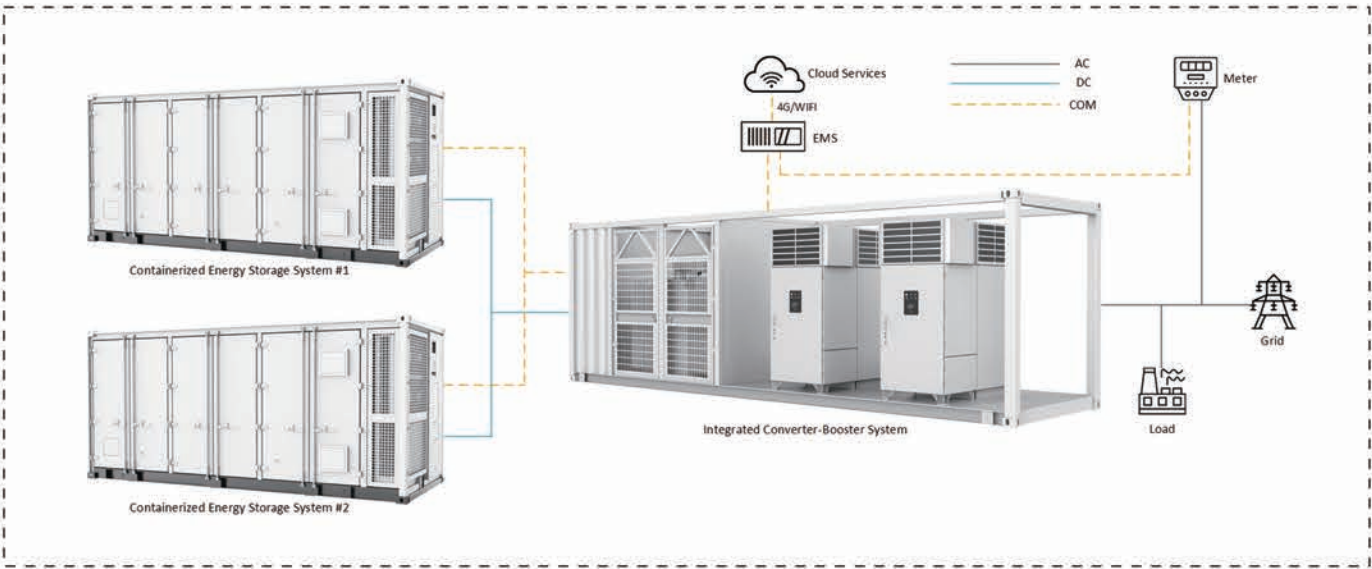
120kW  
Solar MPPT

265kWh  
Battery

| Model                                   | BS07-265-ES-G                                                                             |
|-----------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Battery Parameters</b>               |                                                                                           |
| Battery Type                            | LiFePO <sub>4</sub>                                                                       |
| Configuration                           | 1P264S                                                                                    |
| Rated Battery Voltage                   | DC 844.8V                                                                                 |
| Nominal Capacity                        | 314Ah                                                                                     |
| Battery Voltage Range                   | 739.2~950.4V                                                                              |
| Nominal Energy                          | 265.267kWh                                                                                |
| Usable Energy(kWh@90%DOD)               | 238.74kWh                                                                                 |
| Cycle Life                              | ≥8000 Cycles(@25°C,0.5C,90%DOD,70%EOL)                                                    |
| Warranty Period                         | 5+5 years                                                                                 |
| Cumulative Discharge Energy             | 426.0MWh                                                                                  |
| <b>PV input Parameters</b>              |                                                                                           |
| Input Power                             | 120kW                                                                                     |
| PV Open-circuit Voltage                 | DC 200~900V                                                                               |
| MPPT Voltage Range                      | DC 200~700V                                                                               |
| Start-up Voltage                        | 250V                                                                                      |
| No. of MPPT Trackers                    | 1                                                                                         |
| Max. PV Current                         | 200A                                                                                      |
| Short-circuit Current                   | 60A+60A+60A+60A                                                                           |
| <b>AC (On Grid)</b>                     |                                                                                           |
| Rated Power                             | 125kW                                                                                     |
| Output Voltage                          | AC 230/400V                                                                               |
| Grid Frequency                          | 50/60Hz                                                                                   |
| Grid Connection Form                    | 3W+N+PE                                                                                   |
| Power Factor                            | 0.99                                                                                      |
| Power Factor Range                      | -1(leading)~1(lagging)                                                                    |
| THDi                                    | <2%(rated power)                                                                          |
| <b>AC (off-grid)</b>                    |                                                                                           |
| Rated Power                             | 125kW                                                                                     |
| Output Voltage                          | AC 230/400V                                                                               |
| Grid Frequency                          | 50/60Hz                                                                                   |
| AC Voltage harmonic                     | <3%(Linear load)                                                                          |
| <b>Isolation Transformer Parameters</b> |                                                                                           |
| Voltage                                 | AC 400/400V                                                                               |
| Capacity                                | 150kVA                                                                                    |
| Max. Efficiency                         | ≥97%                                                                                      |
| Short-Circuit Impedance                 | 4%                                                                                        |
| <b>Basic Parameters</b>                 |                                                                                           |
| Dimension (W*D*H)                       | 1758*1476*2135mm                                                                          |
| Weight                                  | 3350kg                                                                                    |
| Operating Temperature Range(°C)         | -30°C~55°C(> 45°C derating)                                                               |
| Relative Humidity                       | 5%-90%(non-condensing)                                                                    |
| IP Rating                               | IP54                                                                                      |
| Anti-corrosion Grade                    | C4(Optional C5)                                                                           |
| Noise                                   | 75dB(<1m distance)                                                                        |
| Altitude                                | ≤2000m                                                                                    |
| Cooling Method                          | Intelligent Air Cooling (Battery compartment air conditioning,electrical compartment fan) |
| Certifications                          | UN38.3,MSDS,IEC62619(CB),IEC63056(CB),IEC62040-1(CB),CE-EMC,IEC62477-1,IEC60529           |



DH3.34ML-1.672M/DH5ML-2.5M  
Large-scale energy storage container solutions  
3.34MWh/5MWh



| Model                    | DH3.34ML-1.672M                                                                                          |  | DH5ML-2.5M |  |
|--------------------------|----------------------------------------------------------------------------------------------------------|--|------------|--|
| Technical Data           |                                                                                                          |  |            |  |
| Cell type                | LFP 3.2V/314Ah                                                                                           |  |            |  |
| Battery Configuration    | 1P416S*8                                                                                                 |  | 1P416S*12  |  |
| Total energy             | 3343.97kWh                                                                                               |  | 5015.96kWh |  |
| Rated Power (0.5P)       | 1672kW                                                                                                   |  | 2500kW     |  |
| Voltage range (Battery)  | 1123.2-1497.6V                                                                                           |  |            |  |
| Cycle Life               | 8000Cycles(0.5P,25+2°C,@70%SOH)                                                                          |  |            |  |
| System                   |                                                                                                          |  |            |  |
| Dimension (W*D*H)        | 6058mm*2438mm*2896mm                                                                                     |  |            |  |
| Weight                   | ≤35T                                                                                                     |  | ≤45T       |  |
| IP rating                | IP55(Pack IP67)                                                                                          |  |            |  |
| Operating temperature    | -20~50°C                                                                                                 |  |            |  |
| Humidity                 | 0-95%RH(no condensation)                                                                                 |  |            |  |
| System Efficiency        | >93%                                                                                                     |  |            |  |
| Cooling method           | Liquid cooling/50% ethylene glycol                                                                       |  |            |  |
| Altitude                 | ≤2000m(Standard)                                                                                         |  |            |  |
| Noise                    | <80dB                                                                                                    |  |            |  |
| Fire fighting system     | Aerosol                                                                                                  |  |            |  |
| Anti-corrosion Degree    | C4/C5                                                                                                    |  |            |  |
| Communication Interface  | CAN/Ethernet                                                                                             |  |            |  |
| Compliant with standards | GB/T34120, GB/T36276, GB/T34133, GB/T34131, IEC62477, IEC62619, IEC63056, IEC61000, IEC62933-5-2, UN38.3 |  |            |  |



## DAHAI SOLAR PROVIDES SOLUTIONS FOR LOW-CARBON GREEN LIFE

As the largest distributed photovoltaic module supplier and service provider in Shandong Province, Dahai Solar actively responds to the national call for energy conservation and emission reduction. The company always prioritizes environmental protection, advocating new ideas in environmental protection technology while continuing to innovate and develop the new energy industry. It also implements the "carbon peak" policy. The highest development goal of the enterprise is to achieve zero carbon power generation, zero carbon data centers, zero carbon networks, and zero carbon home construction, making a significant contribution to establishing a zero carbon earth.

To adapt to the new normal and demonstrate new achievements, the company will adhere to top-level design, promote pattern innovation, and implement structural adjustments. The development strategy will focus on market operations and cultural support while strengthening research and development in science and technology for independent innovation. It will closely revolve around the advantages of new energy and new material industries, upgrading technical equipment and industrial levels. Besides the development of new energy, the company will also industrialize and integrate information in new emerging industries such as composite materials and chemical sectors. This continuous enhancement of enterprise innovation and sustainable development will lead to better, faster, and more substantial progress. The ultimate goal is to build a comprehensive international competitiveness for the modern enterprise group.

Dahai Group aims to shine in the new era, capitalizing on new policies and seizing new opportunities!



# DAHAI SOLAR

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Guangrao Economic Development Zone  
Dongying Economic Development Zone

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