

# SOLAR INVERTER WITH LITHIUM BATTERY STORAGE

May the power be with you



## HBP1800 HM Series

The MUST All-in-one ESS system is the ideal energy storage solution for home application easily. An inverter system is inbuilt to provide a one-stop service system, which can manage your solar home battery storage system more conveniently. The perfect emergency energy solution for villas, apartments, hotels, shopping centers.



### Inverter Module

MUST hybrid solar inverter can output the direct current(DC) from the rooftop solar PV array into alternating current(AC), so your home or business loading can use it directly.



### Battery Module

HBP1800 series is with ground-breaking LiFePO4 battery pack inside, with multi battery protection inbuilt, it's used for multi power solutions in many fields.

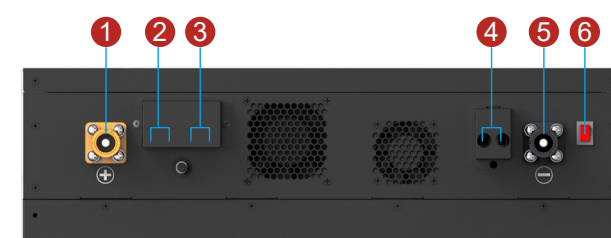
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MUST®

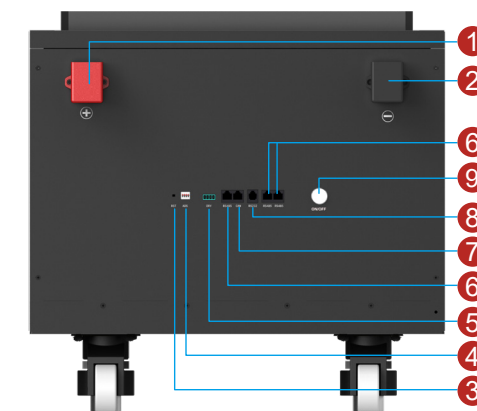
### Specifications

| MODEL           |   | HBP18-3024<br>HM                            |      | HBP18-3524<br>HM |      | HBP18-5248<br>HM |      | HBP18-5548<br>HM |  |
|-----------------|---|---|------|------------------|------|------------------|------|------------------|--|
| Inverter        | Rated power                                     | 3000W                                       |      | 3500W            |      | 5200W            |      | 5500W            |  |
|                 | Output voltage waveform                         | Pure sine wave                              |      |                  |      |                  |      |                  |  |
|                 | Output voltage regulation                       | 230Vac±5%                                   |      |                  |      |                  |      |                  |  |
|                 | Output frequency                                | 50Hz or 60Hz (±0.2Hz)                       |      |                  |      |                  |      |                  |  |
|                 | Peak efficiency                                 | 90%   |      |                  |      | 93%              |      |                  |  |
|                 | Nominal DC input voltage                        | 24Vdc                                       |      | 24Vdc            |      | 48Vdc            |      | 48Vdc            |  |
|                 | Standby Consumption                             | <25W  |      |                  |      |                  |      |                  |  |
| PV Input        | Max solar power input                           | 4000W                                       |      |                  |      | 5000W            |      | 6000W            |  |
|                 | PV max charging current                         | 60A   | 60A  | 80A              | 100A | 120A             |      |                  |  |
|                 | Combined charging current                       | 80A   | 80A  | 100A             | 140A | 140A             |      |                  |  |
|                 | Max efficiency                                  | 98.0% max                                   |      |                  |      |                  |      |                  |  |
|                 | PV array open circuit voltage                   | 450Vdc                                      |      |                  |      |                  |      |                  |  |
|                 | PV Array MPPT Voltage Range                     | 150~430Vdc                                  |      |                  |      |                  |      |                  |  |
| AC Input        | AC input voltage                                | 230Vac ±5%                                  |      |                  |      |                  |      |                  |  |
|                 | Acceptable input voltage range                  | 170-280VAC                                  |      |                  |      |                  |      |                  |  |
|                 | Nominal input frequency                         | 50Hz / 60Hz (Auto detection)                |      |                  |      |                  |      |                  |  |
|                 | Transfer time                                   | 10ms typical (UPS, VDE); 20ms typical (APL) |      |                  |      |                  |      |                  |  |
| AC Charge       | Maximum AC charge current                       | 80A   | 80A  |                  | 80A  |                  | 100A |                  |  |
|                 | Charging Algorithm                              | 4-step (Li)                                 |      |                  |      |                  |      |                  |  |
| Output          | AC output                                       | 230Vac (Terminal)                           |      |                  |      |                  |      |                  |  |
| Lithium Battery | Energy  | 6400Wh                                      |      |                  |      | 12800Wh          |      |                  |  |
|                 | Nominal voltage                                 | 25.6V                                       |      |                  |      | 51.2V            |      |                  |  |
|                 | Battery capacity                                | 250Ah                                       |      |                  |      |                  |      |                  |  |
|                 | Standard charging and discharge current         | 30-100A                                     |      |                  |      |                  |      |                  |  |
|                 | Maximum continuous charging & discharge current | 100A  | 100A |                  | 100A |                  | 120A |                  |  |
|                 | Operation ambient temperature                   | -10~50°C                                    |      |                  |      |                  |      |                  |  |
|                 | Storage ambient temperature                     | -20~55°C                                    |      |                  |      |                  |      |                  |  |
| Dimension       | Product Size (LxWxH)                            | /   | /    |                  | /    |                  | /    |                  |  |
|                 | Packing Size (LxWxH)                            | /   | /    |                  | /    |                  | /    |                  |  |
|                 | Net Weight                                      | 60  | 62   |                  | 87   |                  | 90   |                  |  |
|                 | Gross Weight                                    | 75  | 78   |                  | 105  |                  | 108  |                  |  |

### Pic of Input & Output Port



1. BAT+
2. AC input
3. AC output
4. PV input
5. BAT-
6. Power on/off switch



1. BAT+
2. BAT-
3. RST port
4. ADS port
5. DRY port
6. RS485 communication port
7. CAN port
8. RS232 communication port
9. ON/OFF indicator

The technical specifications of this document are subject to change without any notice