

# hinen

## 5000Wh BATTERY SYSTEM



Datasheet

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## Technical parameters

| Model                                      | B5000  |   |   |   |  |
|--|--|---|---|---|--|
| Product name                               | Rechargeable Li-ion Battery Pack (5.12kWh)           | Rechargeable Li-ion Battery Pack (10.24kWh) | Rechargeable Li-ion Battery Pack (15.36kWh) | Rechargeable Li-ion Battery Pack (20.48kWh) | Rechargeable Li-ion Battery Pack (25.6kWh) |
| Rated Energy <sup>1</sup>                  | 5.12kWh  | 10.24kWh                                    | 15.36kWh                                    | 20.48kWh                                    | 25.6kWh                                    |
| Usable capacity                            | 4.6kWh   | 9.21kWh                                     | 13.82kWh                                    | 18.43kWh                                    | 23.04kWh                                   |
| Battery type                               | LFP(LiFePO <sub>4</sub> )                            |   |   |   |  |
| Number of modules                          | 1  | 2   | 3   | 4   | 5  |
| Battery configuration                      | 16S1P  | 16S2P                                       | 16S3P                                       | 16S4P                                       | 16S5P                                      |
| Cycle life <sup>2</sup>                    | 6000 cycles  |   |   |   |  |
| Rated voltage                              | 51.2V  |   |   |   |  |
| Operating voltage range                    | 40~57.6V   |   |   |   |  |
| Peak current                               | 120A 60S   |   |   |   |  |
| Depth of Discharge (DOD)                   | 90%  | 90%   | 90%   | 90%   | 90%  |
| Max. continuous charge / discharge current | 100A   | 120A  | 120A  | 120A  | 120A                                       |
| Rated power                                | 5.12KW   | 6.14KW                                      | 6.14KW                                      | 6.14KW                                      | 6.14KW                                     |
| Short-Circuit Current                      | 800A@0.1mS   |   |   |   |  |
| Run Log Recording                          | 32M-byte   |   |   |   |  |
| Communication                              | CAN  |   |   |   |  |
| Weight                                     | 51.4KG   | 102.8KG                                     | 154.2KG                                     | 205.6KG                                     | 257KG                                      |
| Dimensions (W*H*D)                         | 534*500*175mm  |   |   |   |  |
| Operating temperature                      | Charge: 0°C < T < 55°C / Discharge: -20°C < T < 55°C |   |   |   |  |
| Storage temperature                        | -20~40°C(≤One month)/0~35°C(≤One year)               |   |   |   |  |
| Humidity                                   | ≤10~85%  |   |   |   |  |
| Altitude                                   | ≤2000m   |   |   |   |  |
| Ingress protection rating                  | IP66   |   |   |   |  |
| Installation type                          | Wall-mounted/Floor stand                             |   |   |   |  |
| Warranty <sup>3</sup>                      | 5 Years Warranty, 10 Years Performance Life          |   |   |   |  |
| Country of manufacture                     | Made in China  |   |   |   |  |

Rated Energy<sup>1</sup>: Test conditions: 80% DOD, 0.5C charge & discharge at +25±3°C.

Cycle life<sup>2</sup>: Test conditions, 80%DOD, 0.5C charge & 0.5C discharge at +25±3°C.

Warranty<sup>3</sup>: Refer to battery warranty letter for conditional application.

| Model                                      | B5000  |   |   |   |  |
|--|--|---|---|---|--|
| Product name                               | Rechargeable Li-ion Battery Pack (30.72kWh)          | Rechargeable Li-ion Battery Pack (35.84kWh) | Rechargeable Li-ion Battery Pack (40.96kWh) | Rechargeable Li-ion Battery Pack (46.08kWh) | Rechargeable Li-ion Battery Pack (51.2kWh) |
| Rated Energy <sup>1</sup>                  | 30.72kWh   | 35.84kWh                                    | 40.96kWh                                    | 46.08kWh                                    | 51.2kWh                                    |
| Usable capacity                            | 27.64kWh   | 32.25kWh                                    | 36.86kWh                                    | 41.47kWh                                    | 46.08kWh                                   |
| Battery type                               | LFP(LiFePO <sub>4</sub> )                            |   |   |   |  |
| Number of modules                          | 6  | 7   | 8   | 9   | 10   |
| Battery configuration                      | 16S6P  | 16S7P                                       | 16S8P                                       | 16S9P                                       | 16S10P                                     |
| Cycle life <sup>2</sup>                    | 6000 cycles  |   |   |   |  |
| Rated voltage                              | 51.2V  |   |   |   |  |
| Operating voltage range                    | 40~57.6V   |   |   |   |  |
| Peak current                               | 120A 60S   |   |   |   |  |
| Depth of Discharge (DOD)                   | 90%  | 90%   | 90%   | 90%   | 90%  |
| Max. continuous charge / discharge current | 120A   | 120A  | 120A  | 120A  | 120A                                       |
| Rated power                                | 6.14KW   | 6.14KW                                      | 6.14KW                                      | 6.14KW                                      | 6.14KW                                     |
| Short-Circuit Current                      | 800A@0.1mS   |   |   |   |  |
| Run Log Recording                          | 32M-byte   |   |   |   |  |
| Communication                              | CAN  |   |   |   |  |
| Weight                                     | 308.4KG  | 359.8KG                                     | 411.2KG                                     | 462.6KG                                     | 514KG                                      |
| Dimensions (W*H*D)                         | 534*500*175mm  |   |   |   |  |
| Operating temperature                      | Charge: 0°C < T < 55°C / Discharge: -20°C < T < 55°C |   |   |   |  |
| Storage temperature                        | -20~40°C(≤One month)/0~35°C(≤One year)               |   |   |   |  |
| Humidity                                   | ≤10~85%  |   |   |   |  |
| Altitude                                   | ≤2000m   |   |   |   |  |
| Ingress protection rating                  | IP66   |   |   |   |  |
| Installation type                          | Wall-mounted/Floor stand                             |   |   |   |  |
| Warranty <sup>3</sup>                      | 5 Years Warranty, 10 Years Performance Life          |   |   |   |  |
| Country of manufacture                     | Made in China  |   |   |   |  |

Rated Energy<sup>1</sup>: Test conditions: 80% DOD, 0.5C charge & discharge at +25±3°C.

Cycle life<sup>2</sup>: Test conditions, 80%DOD, 0.5C charge & 0.5C discharge at +25±3°C.

Warranty<sup>3</sup>: Refer to battery warranty letter for conditional application.