

BOS-G



- ◆ **Convenient**

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance.

- ◆ **Safe and reliable**

Cathode material is made from LiFePO4 with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

- ◆ **Intelligent BMS**

It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

- ◆ **Eco-friendly**

The whole module is non-toxic, non-polluting and environmentally friendly.

- ◆ **Flexible configuration**

Multiple battery modules can be in parallel for expanding capacity and power. Support USB upgrade, wifi upgrade(optional), remote up grade(Compatible with Deye inverter).

- ◆ **Wide temperature**

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

Technical Data

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| Model | BOS-G | | | | |
|--|--|----------------------------|-----------------------------|--|--|
| Main Parameter | | | | | |
| Cell Chemistry | LiFePO4 | | | | |
| Module Energy(kWh) | 5.12 | | | | |
| Module Nominal Voltage (V) | 51.2 | | | | |
| Module Capacity(Ah) | 100 | | | | |
| Battery Module Qty in series. (Optional) | 3 (Min) | 8 (Standard US Cluster) | 12 (Standard EU Cluster) | | |
| System Nominal Voltage (V) | 153.6 | 409.6 | 614.4 | | |
| System Operating Voltage (V) | 124.8~175.2 | 332.8~467.2 | 499.2~700 | | |
| System Energy (kWh) | 15.36 | 40.96 | 61.44 | | |
| System Usable Energy (kWh) ¹ | 13.8 | 36.86 | 55.29 | | |
| Charge/Discharge ² Current (A) | Recommend | 50 | | | |
| | Nominal | 100 | | | |
| | Peak Discharge (2 mins, 25°C) | 125 | | | |
| Working Temperature(°C) | Charge: 0~55/Discharge: -20~55 | | | | |
| Status Indicator | Yellow: Battery High Voltage Power On Red: Battery System Alarm | | | | |
| Communication Port | CAN2.0/RS485 | | | | |
| Humidity | 5~85%RH | | | | |
| Altitude | ≤2000m | | | | |
| IP Rating of Enclosure | IP20 | | | | |
| Dimension (W/D/H,mm) | 589*590*1640 | | 589*590*2240 | | |
| Weight Approximate(kg) | 258 | 434 | 628 | | |
| Installation Location | Rack Mounting | | | | |
| Storage Temperature(°C) | 0~35 | | | | |
| Recommend Depth of Discharge | 90% | | | | |
| Cycle Life | 25±2°C, 0.5C/0.5C, EOL70%≥6000 | | | | |
| Warranty ³ | 10years | | | | |
| Certification | CE/IEC62619/UL1973/UL9540A/UN38.3 | | | | |

1 DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

2 The current is affected by temperature and SOC.

3 The warranty is due whichever reached first of warranty period or life cycle power.



System Components

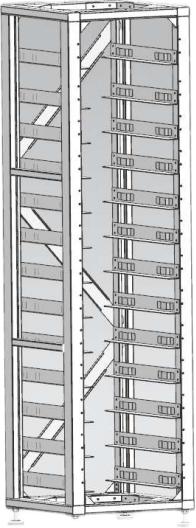
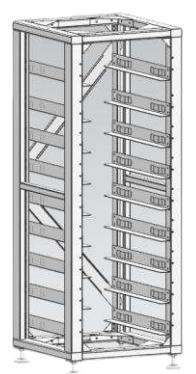
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| Model | Description |
|--|--|
| HVB750V/100A-EU | High Voltage Battery cluster control box conforming to European or British Standards |
| Operating Voltage Nominal Charge/Discharge Current Max.Charge/Discharge Current DC Input Rating Operating Temperature Range Ingress Protection Dimension (W/D/H) Weight Approximate | 120 ~ 750Vdc 100A 125A 12±2%V/4.15A -20~65°C IP20 440*570*150mm 15.5kg |
| HVB750V/100A-US | High Voltage Battery cluster control box conforming to North American Standard |
| Operating Voltage Nominal Charge/Discharge Current Max.Charge/Discharge Current DC Input Rating Operating Temperature Range Ingress Protection Dimension (W/D/H) Weight Approximate | 120 ~ 750Vdc 100A 125A 12±2%V/4.15A -20~65°C IP20 440*570*150mm 17kg |
| High voltage box Standard configuration: ① 120 ohm terminal resistance ② 140mm communication cable ③ 220mm power cable ④ 1.5m power cable (US Version) 2.1m power cable (EU Version) ⑤ Power plug | |
| BOS-GM5.1 | 5.12 kwh battery module |
| Battery Type Nominal Voltage Rated Capacity Rated Energy Nominal Charge/Discharge Current Peak Discharge Current Charge Temperature Discharge Temperature Storage Temperature Ingress Protection Dimension (W/D/H) Weight Approximate | LiFePO4(LFP) 51.2Vdc 100Ah 5.12kWh 100A 125A 0~55°C -20°C ~ 55°C 0°C ~ 35°C IP20 440*570*133mm 44kg |
| Battery module Standard configuration: ① 110mm communication cable ② 200mm power cable | |
| EPCable5.0(Optional) | Standard 5-meter power cable connected to the positive pole of the external PCS |
| 1000V/4AWG cable | |
| ENCable5.0(Optional) | Standard 5-meter power cable connected to the negative pole of the external PCS |
| 1000V/4AWG cable | |



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| Model | Description |
|---|--|
| EPWR Cable5.0(Optional) | Standard 5-meter cable connected to external 12VDC power supply |
| |  |
| ECOM Cable5.0(Optional) | Standard 5-meter communication cable connected to the external device |
| |  |
| 3U-HRACK(Optional) | Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box |
| Dimension (W/D/H) Weight Approximate | 589*590*2240mm 85kg |
| |  |
| 3U-LRACK(Optional) | Standard 19inch rack, caninstall 8 pcs batteries and 1 pcs High Voltage Battery cluster control box |
| Dimension (W/D/H) Weight Approximate | 589*590*1640mm 65kg |
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