

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.

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	10 years			
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.

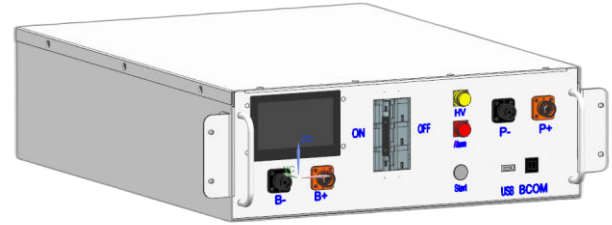
2 The current is affected by temperature and SOC.

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

Model	Description
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HVB750V/100A-EU High Voltage Battery cluster control box conforming to European or British Standards

Operating Voltage 120 ~ 750Vdc
 Nominal Charge/Discharge Current 100A
 Max.Charge/Discharge Current 125A
 DC Input Rating 12±2%V/4.15A
 Operating Temperature Range -20~65°C
 Ingress Protection IP20
 Dimension (W/D/H) 440*570*150mm
 Weight Approximate 15.5kg



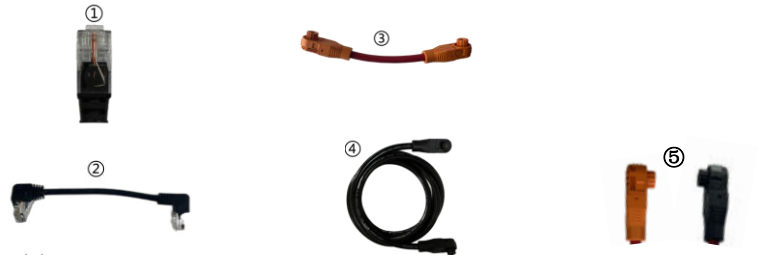
HVB750V/100A-US High Voltage Battery cluster control box conforming to North American Standard

Operating Voltage 120 ~ 750Vdc
 Nominal Charge/Discharge Current 100A
 Max.Charge/Discharge Current 125A
 DC Input Rating 12±2%V/4.15A
 Operating Temperature Range -20~65°C
 Ingress Protection IP20
 Dimension (W/D/H) 440*570*150mm
 Weight Approximate 17kg



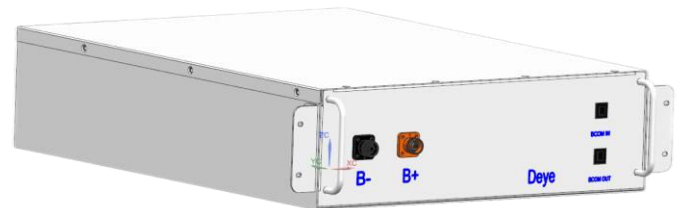
High voltage box Standard configuration:

- 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 LiFePO4(LFP)
 Nominal Voltage 51.2Vdc
 Rated Capacity 100Ah
 Rated Energy 5.12kWh
 Nominal Charge/Discharge Current 100A
 Peak.Discharge Current 125A
 Charge Temperature 0~55°C
 Discharge Temperature -20°C ~ 55°C
 Storage Temperature 0°C ~ 35°C
 Ingress Protection IP20
 Dimension (W/D/H) 440*570*133mm
 Weight Approximate 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



Model	Description
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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

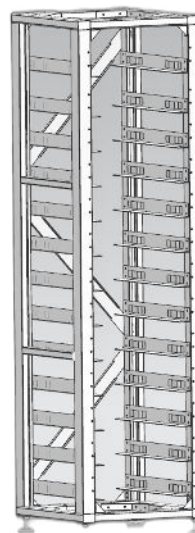


3U-HRACK(Optional)

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

