

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		≤2000 m		
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.

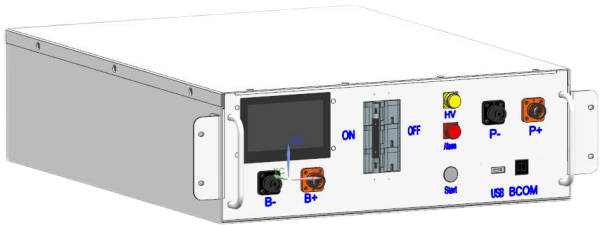
2 The current is affected by temperature and SOC.

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

Model	Description
-------	-------------

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



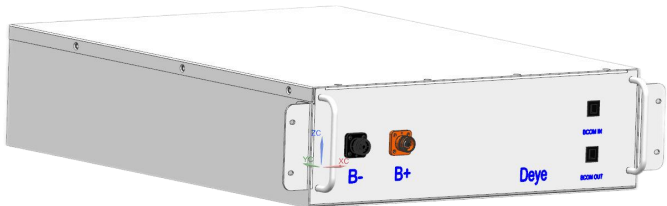
High voltage box Standard configuration:

- ① 120 ohm terminal resistance
- ② 140mm communication cable
- ③ 220mm power cable
- ④ 2.1m power cable (EU Version)
- ⑤ EPCable2.0 (1000V/4AWG Red-cable)
- ⑥ ENCable2.0 (1000V/4AWG Black-cable)



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



EPCable2.0	Standard 2-meter power cable connected to the positive pole of the external PCS
------------	---

1000V/4AWG cable



ENCable2.0	Standard 2-meter power cable connected to the negative pole of the external PCS
------------	---

1000V/4AWG cable



