

BOS-G

High Voltage LiFePO₄ Lithium Battery



◆ 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

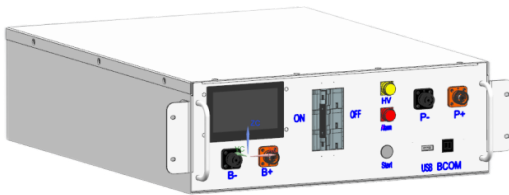
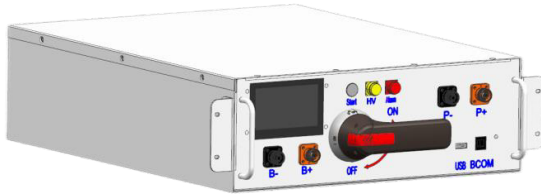
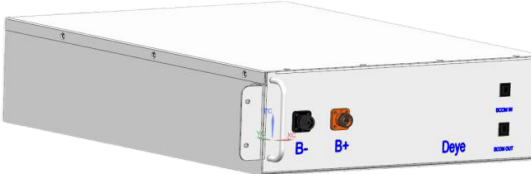
Model		BOS-G		
Main Parameter				
Cell Chemistry		LiFePO4		
Module Energy(kWh)		5.12		
Module Nominal Voltage (V)		51.2		
Module Capacity(Ah)		100		
Battery Module Qty in series. (Optional)		3 (Min)	8 (Standard US Cluster)	12 (Standard EU Cluster)
System Nominal Voltage (V)		153.6	409.6	614.4
System 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.

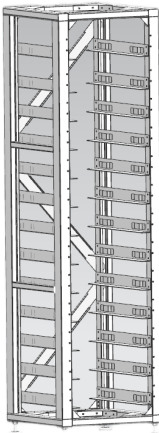
2 The current is affected by temperature and SOC.

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

System Components

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	
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)	
⑤	2.1m power cable (EU Version)	
⑥	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		

System Components

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)	589*590*2240mm	
Weight Approximate	85kg	
		
3U-LRACK(Optional)		Standard 19inch rack, caninstall 8 pcs batteries and 1 pcs High Voltage Battery cluster control box
Dimension (W/D/H)	589*590*1640mm	
Weight Approximate	65kg	
		