

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

Model		B05-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)		4 (Min)	8 (Standard US Cluster)	12 (Standard EU Cluster)
System Nominal Voltage (V)		204.8	409.6	614.4
System Operating Voltage (V)		180~230	359~460	538~691
System Energy (kWh)		20.48	40.96	61.44
System Usable Energy(kWh)		18.5	36.86	55.29
Charge/Discharge Current (A)	Recommend	50		
	Max	100		
	Peak (2 mins, 25°C)	125		
Working Temperature(°C)		Charge: 0~50/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)		580*590*1615		580*590*2200
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		10years		
Certification		CE, IEC62619, UL1973, UL9540A, UN38.3, FCC, CEC, UKCA,		

1 DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

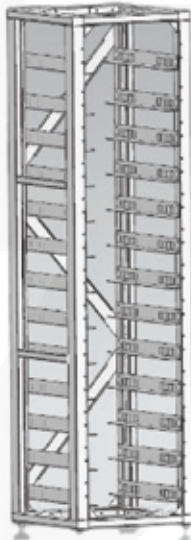
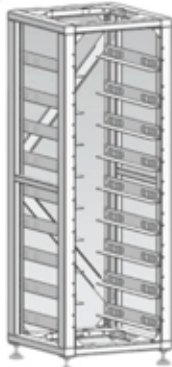
2 The current is affected by temperature and SOC.

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 Nomina 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 -20~55°C IP20 440*565*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 -20~55°C IP20 440*565*150mm 17kg
High voltage box Standard configuration:	
BOS-GM5.1	5.12 kwh battery module
Battery Type Nominal Voltage Nominal Capacity Nominal Energy Nominal Charge/Discharge Current Max.Charge/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 0~50°C -20°C ~ 55°C 0°C ~ 35°C IP20 440*570*133mm 44kg
Battery module Standard configuration:	
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) Weight Approximate	580*590*2200mm 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	580*590*1615mm 65kg	