



# 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 LiFePO<sub>4</sub> 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 / SKU	BOS-G /
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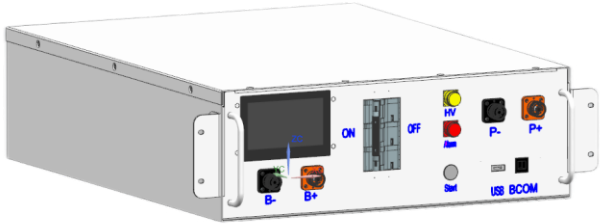
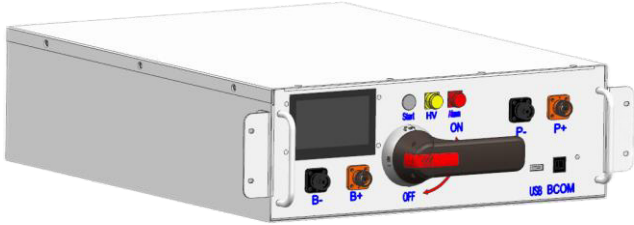

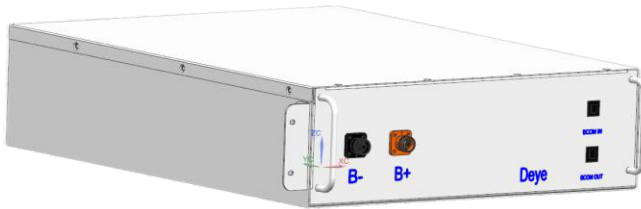



Main Parameter			
Cell Chemistry	LiFePO4		
Module Energy (kWh)	5.12		
Module Nominal Voltage (V)	51.2		
Module Capacity (Ah)	100		
Battery Module Qty In Series (Optional)	3 (Min)	8	12 (Max)
System Nominal Voltage (V)	153.6	409.6	614.4
System Operating Voltage (V)	124.8~175.2	332.8~467.2	499.2~700
System Energy (kWh)	15.36	40.96	61.44
System Usable Energy (kWh) <sup>1</sup>	13.8	36.86	55.29
Charge/Discharge <sup>2</sup> 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 <sup>3</sup>	10 years		
Certification	CE/IEC62619 /VDE2510-50/ 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 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	

# System Components

Model	Description
EPWR Cable5.0(Optional)	Standard 5-meter cable connected to external 12VDC power supply



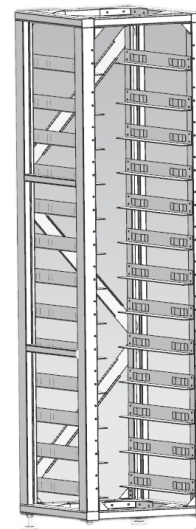
ECOM Cable5.0(Optional)	Standard 5-meter communication cable connected to the external device
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3U-HRACK(Optional)	Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box
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Dimension (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
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Dimension (W/D/H)  
Weight Approximate

589\*590\*1640mm  
65kg

