



# 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 / 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.

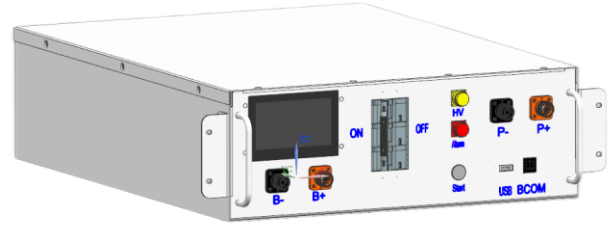
3. The warranty is due whichever reached first of warranty period or life cycle power.

# System Components

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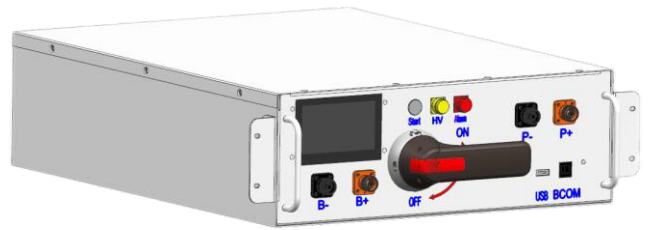
HVB750V/100A-EU High Voltage Battery cluster control box conforming to European or British Standards

Operating Voltage 120 ~ 750Vdc  
 Nominal Charge/Discharge Current 100A  
 Max.Charge/Discharge Current 125A  
 DC Input Rating 12±2%/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%/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:

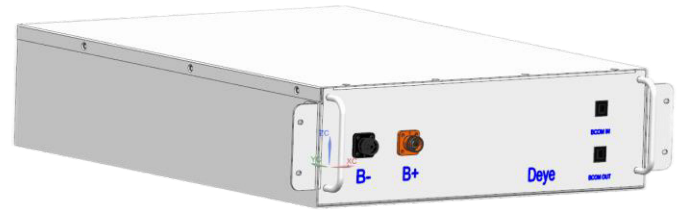
- ① 120 ohm terminal resistance
- ② 140mm communication cable
- ③ 220mm power cable
- ④ 1.5m power cable (US Version)  
2.1m power cable (EU Version)
- ⑤ Power plug



**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



# System Components

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



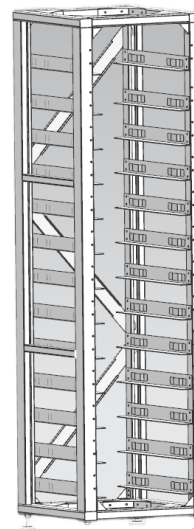
ECOM Cable5.0(Optional)	Standard 5-meter communication cable connected to the external device
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3U-HRACK(Optional)	Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box
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Dimension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

