

# 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

BOS-GX(X=3,4,5,6,7,8,9,10,11,12)

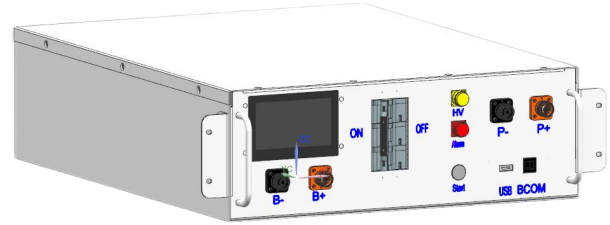
Main Parameter										
Cell Chemistry	LiFePO4									
Module Energy (kWh)	5.12									
Module Nominal Voltage (V)	51.2									
Module Capacity (Ah)	100									
Battery Module Number	BOS-G15	BOS-G20	BOS-G25	BOS-G30	BOS-G35	BOS-G40	BOS-G45	BOS-G50	BOS-G55	BOS-G60
Battery Module Qty In Series (Optional)	3	4	5	6	7	8	9	10	11	12
System Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
System Operating Voltage (V)	124.8~175.2	166.4~233.6	208~292	249.6~350.4	291.2~408.8	332.8~467.2	374.4~525.6	416~584	457.6~642.4	499.2~700
System Energy (kWh)	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
System Usable Energy (kWh) <sup>1</sup>	13.82	18.43	23.04	27.64	32.25	36.86	41.47	46.08	50.68	55.29
Rated DC Power	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
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)	530*602*1599					530*602*2187				
Weight Approximate (kg)	408					594				
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									

- DC Usable Energy, test conditions: 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
- The current is affected by temperature and SOC.
- The warranty is due whichever reached first of warranty period or life cycle power.
- Made in China.

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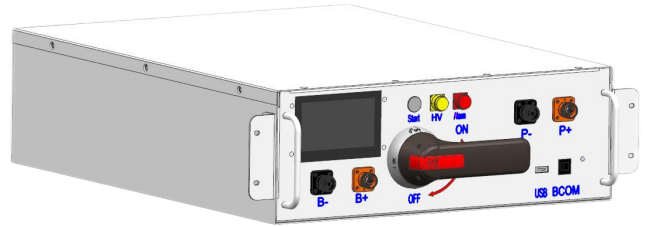
HVB750V/100A-EU High Voltage Battery cluster control box conforming to European or British Standards

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



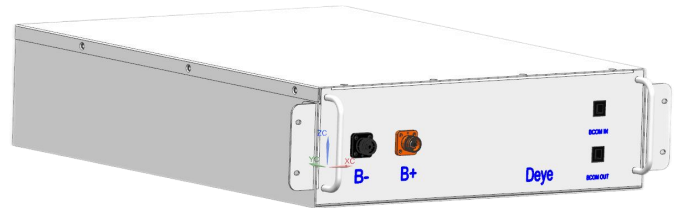
High voltage box Standard configuration:

- 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



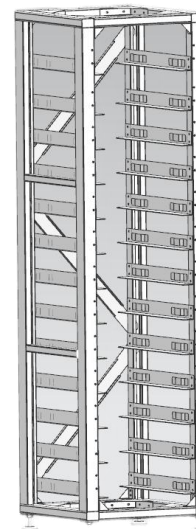
ECOM Cable5.0(Optional)	Standard 5-meter communication cable connected to the external device
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3U-HRACK(Optional)	Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box
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Dimension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

