

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

non-toxic, non-polluting and environmentally friendly.

Configuration

Modules can be in parallel for expanding capacity and power. Support remote upgrade (optional), remote upgrade (Compatible with

Temperature

Operating temperature range is from -20°C to 55°C, with excellent discharge cycle life.

Model	BOS-GX(X=3,4,5,6,7,8,9,10,11,12)
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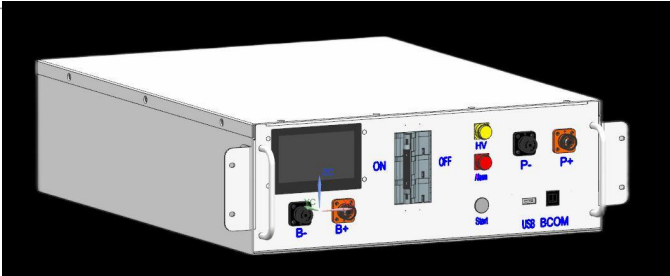
Main Parameter										
Cell Chemistry			LiFePO4							
Module Energy (kWh)			5.12							
Module Nominal Voltage (V)			51.2							
Module Capacity (Ah)			100							
Battery Module Number	BOS-G15	BOS-G20	BOS-G25	BOS-G30	BOS-G35	BOS-G40	BOS-G45	BOS-G50	BOS-G55	BOS-G60
Battery Module Qty In Series (Optional)	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) ¹	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 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)			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 ³			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.
4. Made in China.

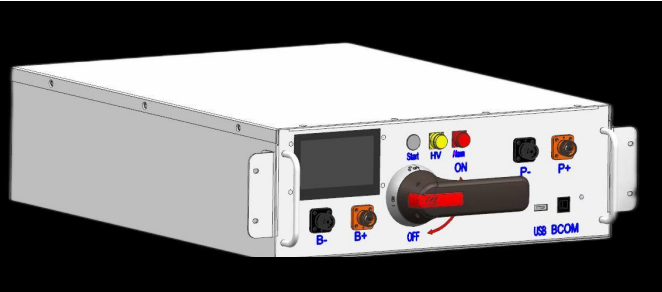


Model	Description
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HVB750V/100A-EU	High Voltage Battery cluster control box conforming to European or British Standards
Operating Voltage	120~750Vdc
Nominal Charge/Discharge Current	100A
Max.Charge/Discharge Current	125A
DC Input Rating	12±2%V/4.15A
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

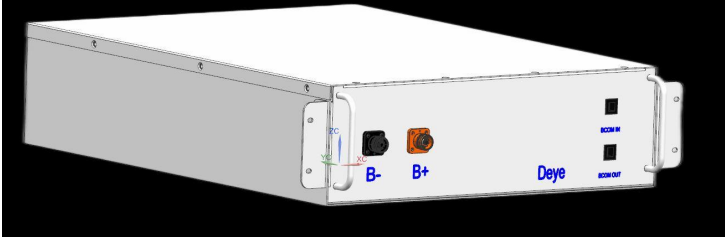


High voltage box Standard configuration:

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



BOS-GM5.1	5.12 kwh battery
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	



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



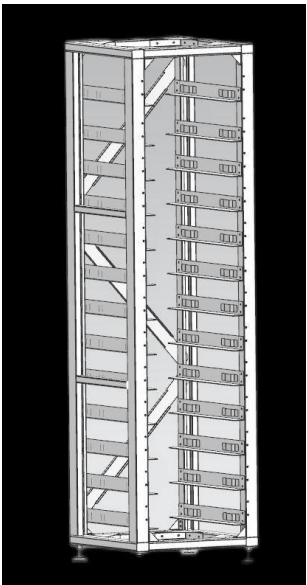
ECOM Cable5.0(Optional)	Standard 5-meter communication cable connected to the external device
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3U-HRACK(Optional)	Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box
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Dimension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

