

# BOS-G PRO



#### ◆ 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.

Model	BOS-G PRO			
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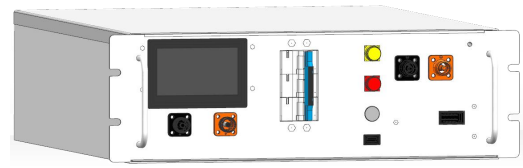
Main Parameter				
Cell Chemistry	LiFePO <sub>4</sub>			
Module Energy (kWh)	5.12			
Module Nominal Voltage (V)	51.2			
Module Capacity (Ah)	100			
Battery Module Number	BOS-G25 PRO	BOS-G40 PRO	BOS-G60 PRO	BOS-G85 PRO
Battery Module Qty In Series (Optional)	5 (Min)	8	12	17 (Max)
System Nominal Voltage (V)	256	409.6	614.4	870.4
System Operating Voltage (V)	220~292	352~467.2	528~700.8	748~992.8
System Energy (kWh)	25.6	40.96	61.44	87.04
System Usable Energy (kWh) <sup>1</sup>	23.04	36.86	55.3	78.33
Rated DC Power	25.6	40.96	55.3	87.04
Charge/Discharge 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	≤3500m			
IP Rating of Enclosure	IP20			
Dimension (W/D/H,mm)	530*602*1629		530*602*2219	1060*602*1629
Weight Approximate (kg)	285	420	610	866
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/ UN38.3			

- DC Usable Energy, test conditions: 90% DOD, 0.3C 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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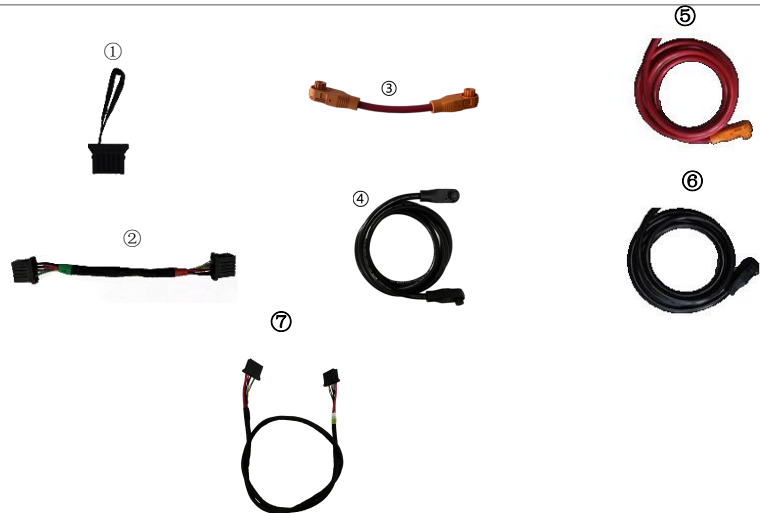
BOS-G-PDU-2 High Voltage Battery cluster control box conforming to European or British Standards

Operating Voltage	200~1000Vdc
Nominal Charge/Discharge Current	100A
Max.Charge/Discharge Current	120A
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	19kg



High voltage box Standard configuration:

- ① 120 ohm terminal resistance
- ② 250mm communication cable
- ③ 200mm power cable
- ④ 2.1m power cable
- ⑤ EPcable2.0  
(Standard 2-meter power cable connected to the positive pole of the external PCS)
- ⑥ ENcable2.0  
(Standard 2-meter power cable connected to the negative pole of the external PCS)
- ⑦ 1000mm communication cable between two battery racks
- ⑧ 1000mm power cable between the two battery racks



BOS-G-PACK5.1

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	120A
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	45kg



Battery module Standard configuration:

- ① 160mm
- ② 200mm power cable



Model	Description
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ECOM Cable2.0(Optional)

Standard 2-meter communication cable connected to the external device

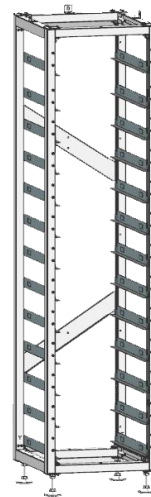


3U-HRACK(Optional)

Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box

Dimension (W/D/H)  
Weight Approximate

530\*602\*2219mm  
51kg



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

530\*602\*1629mm  
41kg

