

B0S-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

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Model		B0S-G		
MainParameter				
CellChemistry		LiFePO4		
Module Energy(kWh)		5.12		
Module Nominal Voltage(V)		51.2		
Module Capacity(Ah)		100		
Battery Module Qty in series. (Optional)		4 (Min)	8 (Standard US Cluster)	12 (Standard EU Cluster)
System Nominal Voltage (V)		204.8	409.6	614.4
SystemOperating Voltage(V)		180~230	359~460	538~691
SystemEnergy(kWh)		20.48	40.96	61.44
System Usable Energy(kWh)		18.5	36.86	55.29
Charge/Discharge Current (A)	Recommend	50		
	Max	100		
	Peak (2 mins,25°C)	125		
Working Temperature(°C)		Charge: 0~50/Discharge: -20~55		
Status Indicator		Yellow: Battery HighVoltage Power On Red: Battery SystemAlarm		
Communication Port		CAN2.0/RS485		
Humidity		5~85%RH		
Altitude		≤2000m		
IPRating of Enclosure		IP20		
Dimension(W/D/H,mm)		580*590*1615		580*590*2200
Weight Approximate(kg)		258	434	628
Installation Location		RackMounting		
Storage Temperature(°C)		0~35		
Recommend Depth of Discharge		90%		
Cycle Life		25±2°C, 0.5C/0.5C,EOL70%≥6000		
Warranty		10years		
Certification		CE, IEC62619,UL1973,UL9540A,UN38.3,FCC,CEC,UKCA,		

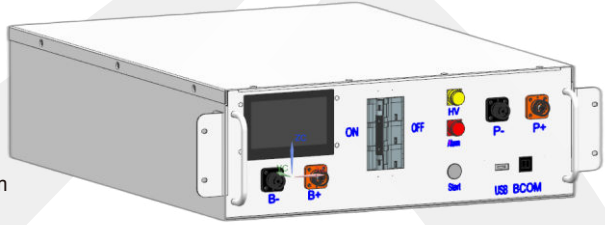
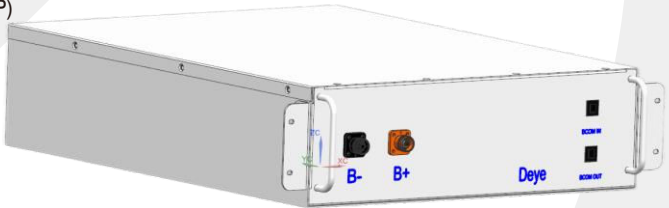
1 DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. Systemusable energy may vary due to systemconfiguration parameters.

2 The current is affected by temperature and SOC.

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

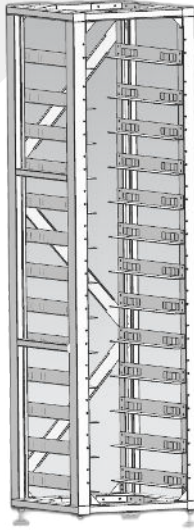
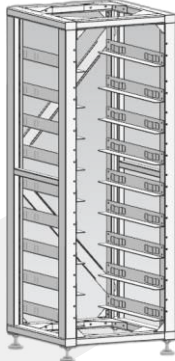
System Components

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Model	Description
HVB750V/100A-EU	High Voltage Battery cluster control box conforming to European or British Standards
Operating Voltage Nomina 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 -20~55°C IP20 440*565*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 -20~55°C IP20 440*565*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)	
BOS-GM5.1	5.12 kwh battery module
Battery Type Nominal Voltage Nominal Capacity Nominal Energy Nominal Charge/Discharge Current Max.Charge/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 0~50°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

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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	
3U-HRACK(Optional)	Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box	
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	580*590*2200mm 85kg	
Dimension (W/D/H) Weight Approximate	580*590*1615mm 65kg	