

BOS-G



Deye

◆ 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).

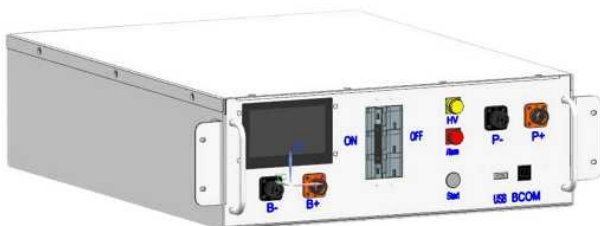
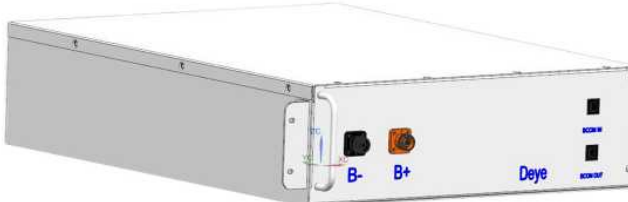
◆ Wide temperature

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

Model	BOS-GX(X=3,4,5,6,7,8,9,10,11,12)
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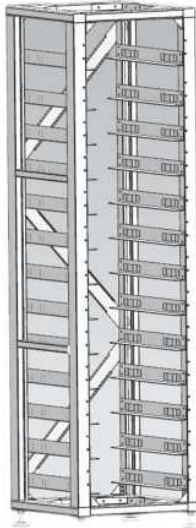
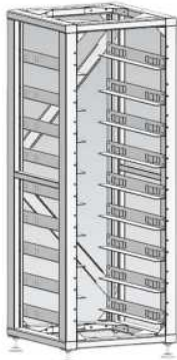
Main Parameter											
Cell Chemistry				LiFePO4							
Module Energy (kWh)				5.12							
Module Nominal Voltage (V)				51.2							
Module Capacity (Ah)				100							
Battery Module Number		BOS-G15	BOS-G20	BOS-G25	BOS-G30	BOS-G35	BOS-G40	BOS-G45	BOS-G50	BOS-G55	BOS-G60
Battery Module Qty In Series (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	
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)	
⑤	2.1m power cable (EU Version)	
⑥	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

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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	
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	
Dimension (W/D/H) Weight Approximate	589*590*1640mm 65kg	



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