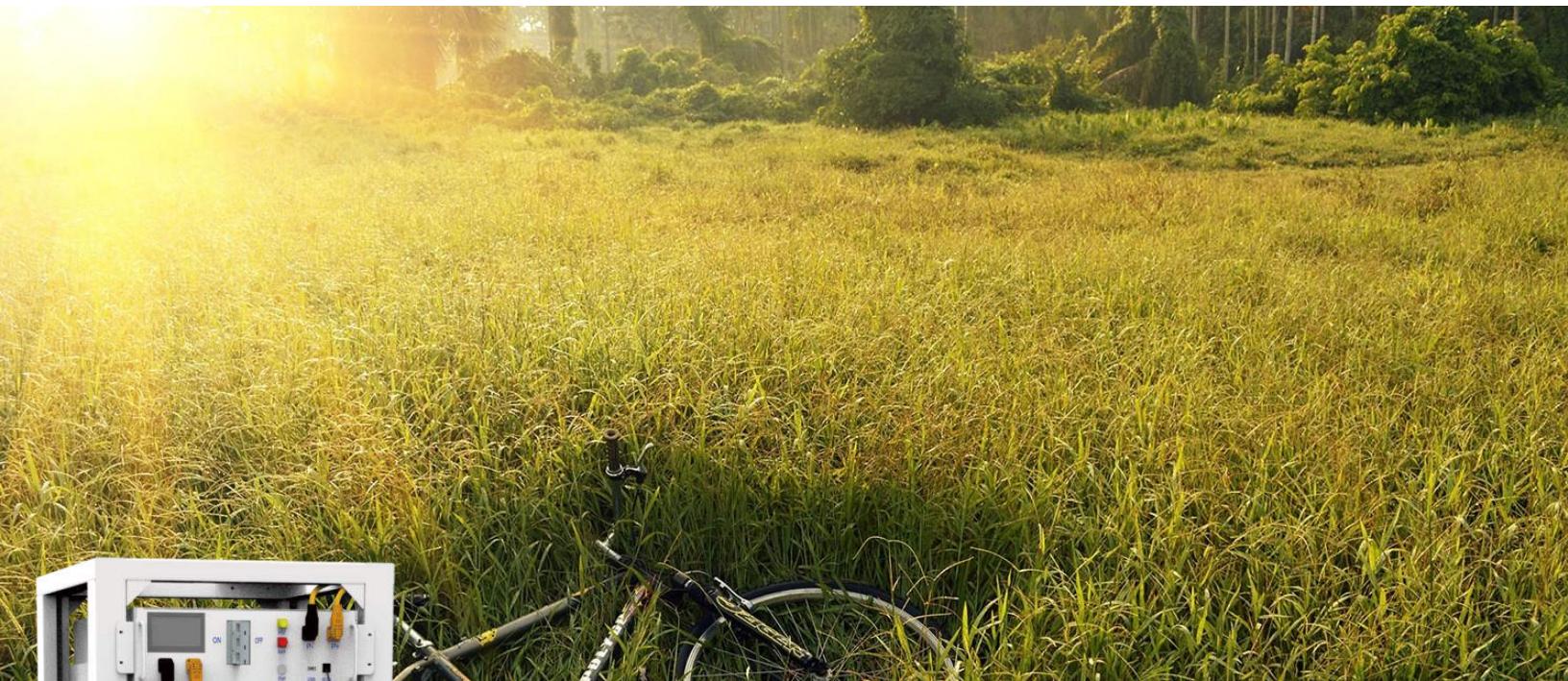


# BOS-G



#### ◆ 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

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

www.deyeess.com

Model	BOS-G				
Main Parameter					
Cell Chemistry	LiFePO4				
Module Energy(kWh)	5.12				
Module Nominal Voltage (V)	51.2				
Module Capacity(Ah)	100				
Battery Module Qty in series. (Optional)	3 (Min)	8 (Standard US Cluster)	12 (Standard EU Cluster)		
System Nominal Voltage (V)	153.6	409.6	614.4		
System Operating Voltage (V)	124.8~175.2	332.8~467.2	499.2~700		
System Energy (kWh)	15.36	40.96	61.44		
System Usable Energy (kWh) <sup>1</sup>	13.8	36.86	55.29		
Charge/Discharge Current (A) <sup>2</sup>	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)	589*590*1640		589*590*2240		
Weight Approximate(kg)	258	434	628		
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>	10years				
Certification	CE/IEC62619/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.



# System Components

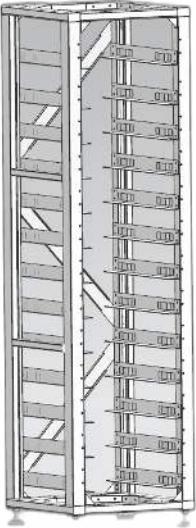
www.deyeess.com

Model	Description
HVB750V/100A-EU	High Voltage Battery cluster control box conforming to European or British Standards
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 -20~65°C IP20 440*570*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 -20~65°C IP20 440*570*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) ⑤ Power plug	
BOS-GM5.1	5.12 kwh battery module
Battery Type Nominal Voltage Rated Capacity Rated Energy Nominal Charge/Discharge Current Peak 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 0~55°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
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
	