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.

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Technical Data

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) [1]	13.8	36.86	55.29
Charge/Discharge Current (A) [2] — Recommend	50		
Charge/Discharge Current (A) [2] — Nominal	100		
Charge/Discharge Current (A) [2] — 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	≤2000 m		
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 [3]	10 years		
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.

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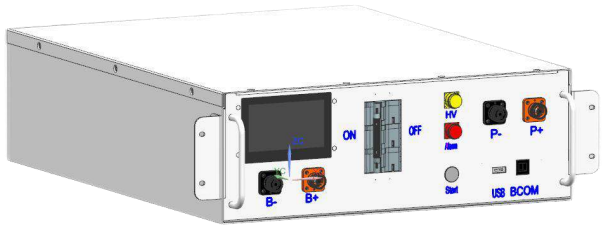
System Components

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

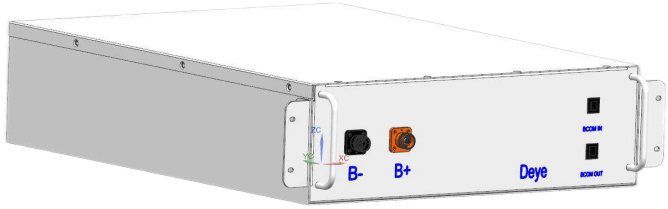


High voltage box Standard configuration：

① 120 ohm terminal resistance
② 140mm communication cable
③ 220mm power cable
④ 2.1m power cable（EU Version）
⑤ EPCable2.0 （ 1000V/4AWG Red-cable ）
⑥ ENCable2.0（ 1000V/4AWG Black-cable ）

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℃～55°C
Storage Temperature	0℃～35°C
Ingress Protection	IP20
Dimension (W/D/H)	440*570*133mm
Weight Approximate	44kg



Battery module Standard configuration：

①110mm communication cable
② 200mm power cable

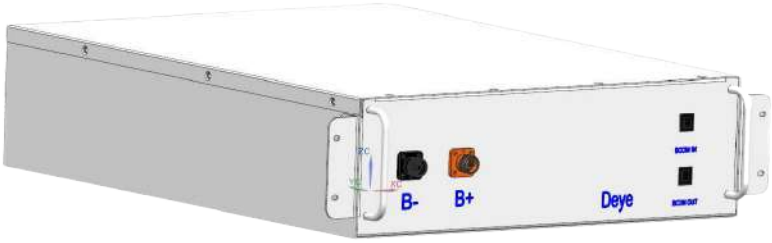
EPCable2.0	Standard 2-meter power cable connected to the positive pole of the external PCS

1000V/4AWG cable

ENCable2.0	Standard 2-meter power cable connected to the negative pole of the external PCS

1000V/4AWG cable

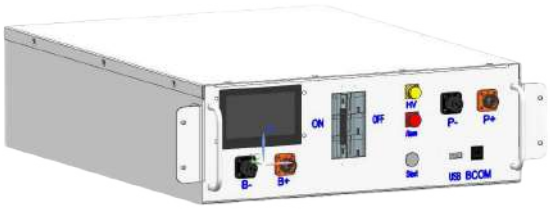
Batteries_Deye



Deye - Battery High Voltage 5.12kWh - BOS-G

- 10-Year Product Warranty
- Module Nominal Voltage 51.2 Vdc
- Module Capacity:100Ah
- Nominal Charge / Discharge Current :100A
- Peak Discharge : 125A
- Operating Voltage 120-750Vdc
- Dimensions : 440*570*133mm
- Weight 44Kg

Product Code (DEYE-HV-5.12-BOS-G)



Deye - BMU - Battery High Voltage Control Box for BOS-G

- 10-Year Product Warranty
- Module Nominal Voltage 51.2 Vdc
- Module Capacity:100Ah
- Nominal Charge Discharge Current :100A
- Peak Discharge : 125A
- Operating Voltage 120-750Vdc
- Dimensions : 440*570*150mm
- Weight 15Kg

Product Code (DEYE-BMU-BOS-G)

Deye - Rack for 12 x Battery High Voltage - BOS-G

- 10-Year Product Warranty
- Module Nominal Voltage : 51.2 Vdc
- System Nominal Voltage : 614.4 V
- Module Capacity:100Ah
- Nominal Charge Discharge Current :100A
- Peak Discharge : 125A
- System Energy : 61.44 kWh
- System Usable Energy :55.29 kWh
- Operating Voltage 499.2 - 700 Vdc
- Dimensions : 589*590*2240mm
- Weight 628Kg

Product Code (DEYE-RACK-BOS-G)