

Deve

Deye BOS-G Pro



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, 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

Deye BOS-G Pro



Main Parameter

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Cell Chemistry		LiFePO ₄				
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) 1		23.04	36.86	55.3	78.33	
Rated DC Power		25.6	40.96	55.3	87.04	
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		≤3000m				
IP Rating of Enclosure		IP20				
Dimension (W×D×H,mm)		530×602×1629		530×602×2219	1060×602×1629	
Weight Approximate (kg)		290	428	622	883	
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		UN38.3/CE/CE-EMC/IEC62040/CEC/VDE				
		10 Table 10				

^{1.} DC Usable Energy, test conditions: 90% DOD, 0.3C 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.

System Components

Deye BOS-G Pro



High Voltage Battery cluster control box conforming to European or British BOS-G-PDU-2 Standards 200~1000Vdc Operating Voltage 100A Nominal Charge/Discharge Current 120A Max.Charge/Discharge Current 12±2%V/4.15A DC Input Rating -20~65°C Operating Temperature Range IP20 Ingress Protection 440×570×150mm Dimension (W×D×H) 19kg Weight Approximate

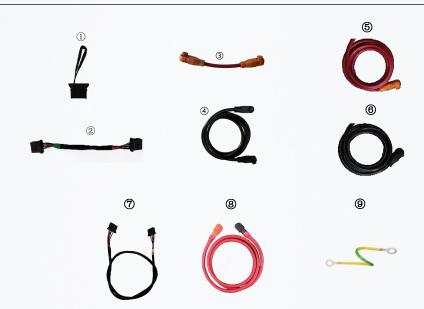
High voltage box Standard configuration:

- 1) 120 ohm terminal resistance
- 2 250mm communication cable
- ③ 140mm power cable
- 42.1m power cable
- ⑤EPCable2.0

(Standard 2-meter power cable connected to the positive pole of the external PCS)

©ENCable2.0

- (Standard 2-meter power cable connected to the negative pole of the external PCS)
- ©1000mm communication cable between two battery racks
- ®1000mm power cable between the two battery racks
- 9140 mm ground wire



BOS-G-Pack5.1

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 120A 0~55°C -20°C~55°C 0°C~35°C IP20 440×585×133mm 46kg



Battery module Standard configuration:

- ① 160mm communication cable
- 2 200mm power cable

System Components







3U-HRACK(Optional)	Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box
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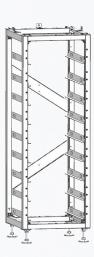
Dimension (W×D×H) Weight Approximate 530×602×2219mm 51kg



3U-LRACK(Optional)	Standard 19inch rack, caninstall 8 pcs batteries and 1 pcs High Voltage Battery cluster control box
	cluster control box

Dimension (W×D×H) Weight Approximate

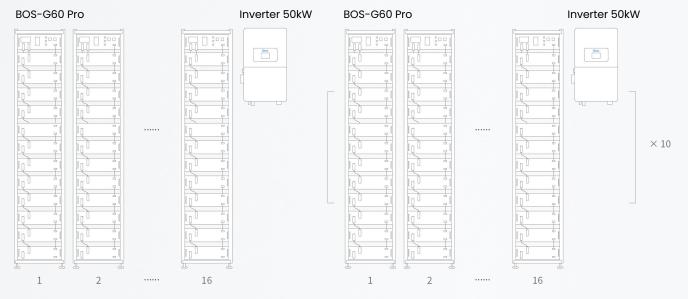
530×602×1629mm 41kg



Typical Application Scenarios

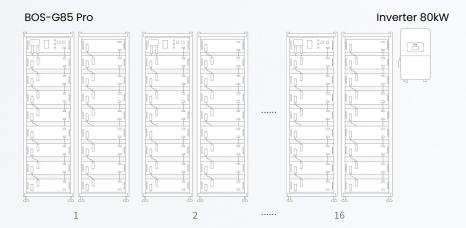


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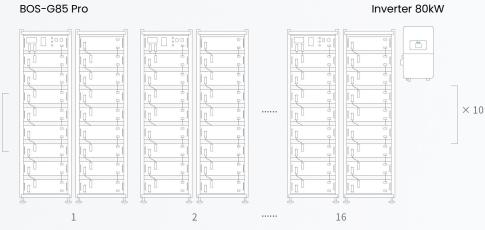


Maximum support for 16 racks of batteries in parallel

Maximum support for 10 inverters in AC parallel operation



Maximum support for 16 clusters of batteries in parallel



Maximum support for 10 inverters in AC parallel operation