

SMALL-SCALE C&I ESS SOLUTION

DEYE SUMMER BOS SERIES



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 Bl

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.

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Flexible configuration

 Multiple battery modules can be in parallel for expanding capacity and power. Support USB upgrade, remote up grade (Compatible with Deye inverter).

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co-friendly

 The whole module is non-toxic, non-polluting and environmentally friendly.

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Wide temperature

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

≥6000

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Cycles

Flexible Expansion

70%

EOL

10 years

Warranty for long-term peace of mind

Rack-Mounted Battery (HV)

Model		BOS-G Pro			
Main Parameter					
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-G80 Pro
Battery Module Qty In Series (Optional)		5 (Min)	8	12	16
System Nominal Voltage (V)		256	409.6	614.4	819.2
System Operating Voltage (V)		220~292	352~467.2	528~700.8	704~934.4
System Energy (kWh)		25.6	40.96	61.44	81.92
System Usable Energy (kWh)		23.04	36.86	55.3	73.73
Rated DC Power (kW)		25.6	40.96	61.44	81.92
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 ($W \times D \times H$,mm)		$530 \times 602 \times 1629$ $530 \times 602 \times 2219$ $1060 \times 602 \times 1000$			$1060 \times 602 \times 1629$
Weight Approximate (kg)		290	428	622	837
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		10 years			
Certification		UN38.3 / CE / CE-EMC / IEC62040 / CEC / VDE			

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.



Model

BOS-G-PDU-2

Description

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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 200 ~ 1000Vdc 100A 120A 12±2%V / 4.15A -20 ~ 65°C IP20 440×570×150mm 19kg



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High voltage box Standard configuration: (1) 120 ohm terminal resistance 2 250mm communication cable ③ 140mm power cable ④2.1m power cable Q 5 EPCable 2.0 (Standard 2-meter power cable connected to the positive pole of the external PCS) ⑥ENCable2.0 (Standard 2-meter power cable connected ന to the negative pole of the external PCS) 1000mm communication cable between two battery racks ⑧1000mm power cable between the two battery racks (9)140 mm ground wire

BOS-G-Pack5.1

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 120A Charge Temperature 0~55°C Discharge Temperature -20°C ~ 55°C 0°C ~ 35°C Storage Temperature **Ingress Protection** IP20 Dimension ($W \times D \times H$) 440×585×133mm Weight Approximate 46kg



Battery module Standard configuration: (1) 160mm communication cable (2) 200mm power cable





Model

3U-HRACK(Optional)

Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box

Description

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

Dimension (W×D×H) Weight Approximate 530×602×1629mm 41kg





Typical Application Scenarios

Typical Application Scenarios



BOS-G80 Pro



Maximum support for 16 clusters of batteries in parallel

BOS-G80 Pro



Maximum support for 10 inverters in AC parallel operation

Deye



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