Deye

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.

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.

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.

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.

⩾6000

Cycles

Flexible Expansion

35kWh ~ 87kWh

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-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)		23.04	36.86	55.3	78.33
Rated DC Power (kW)		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		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.

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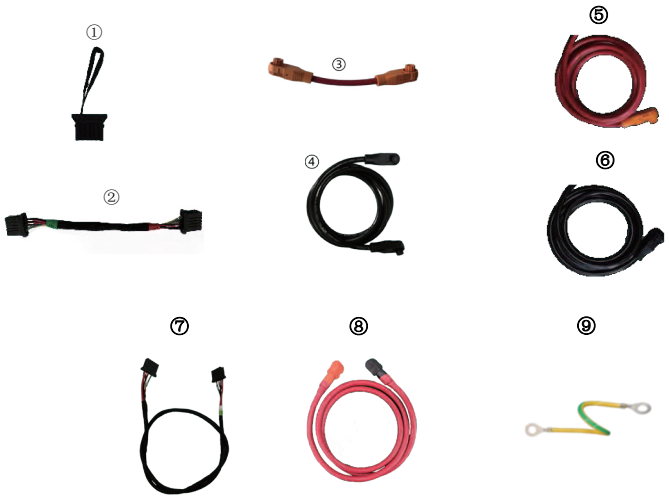
System Components

Model	Description
BOS-G-PDU-2	High Voltage Battery cluster control box conforming to European or British Standards

Operating Voltage	200 ~ 1000Vdc
Nominal Charge/Discharge Current	100A
Max.Charge/Discharge Current	120A
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	19kg

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)
⑥ENCable2.0
(Standard 2-meter power cable connected to the negative pole of the external PCS)
⑦1000mm communication cable between two battery racks
⑧1000mm power cable between the two battery racks
⑨140 mm ground wire



BOS-G-Pack5.1	5.12 kwh battery module

Battery Type	$LiFePO_4$(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
Storage Temperature	0°C ~ 35°C
Ingress Protection	IP20
Dimension (W×D×H)	440×585×133mm
Weight Approximate	46kg

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

System Components

Model	Description
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	530×602×2219mm 51kg

HRACK(SKU:10100401000078)
Can be installed with an optional door.

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

LRACK(SKU:10100401000079)
Can be installed with an optional door.

Typical Application Scenarios

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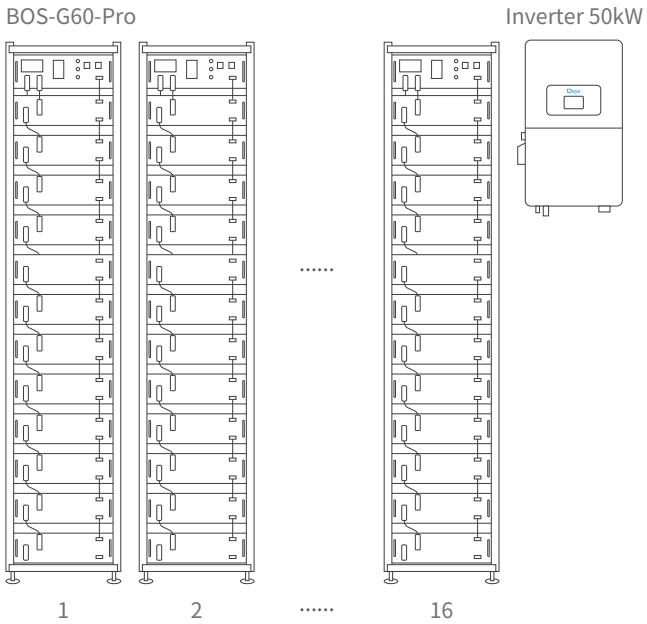
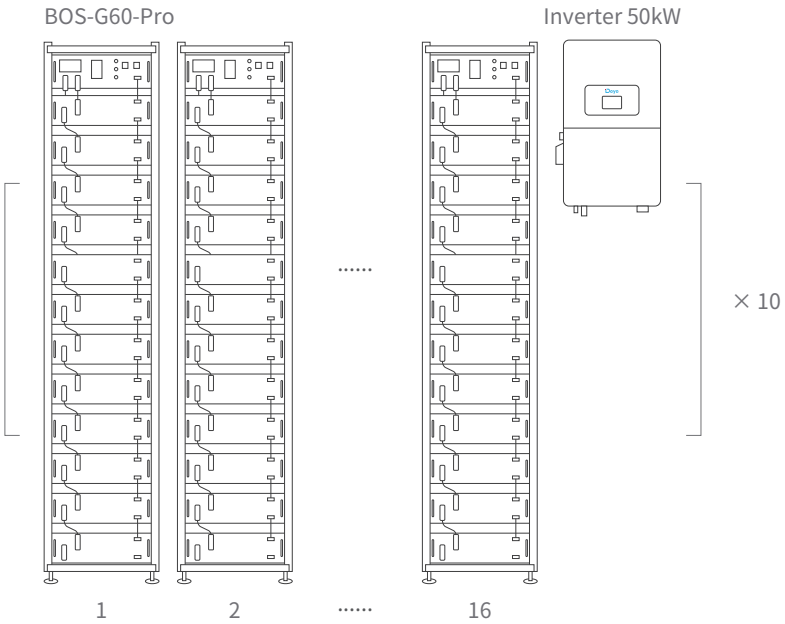
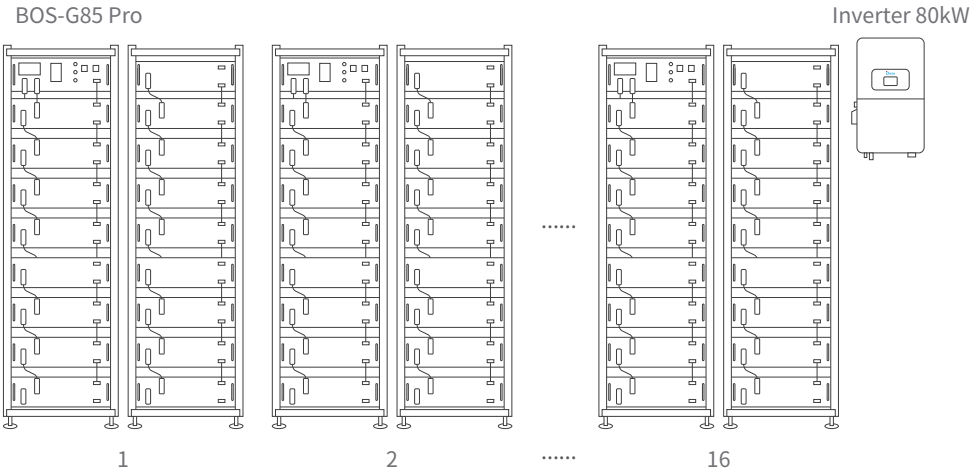


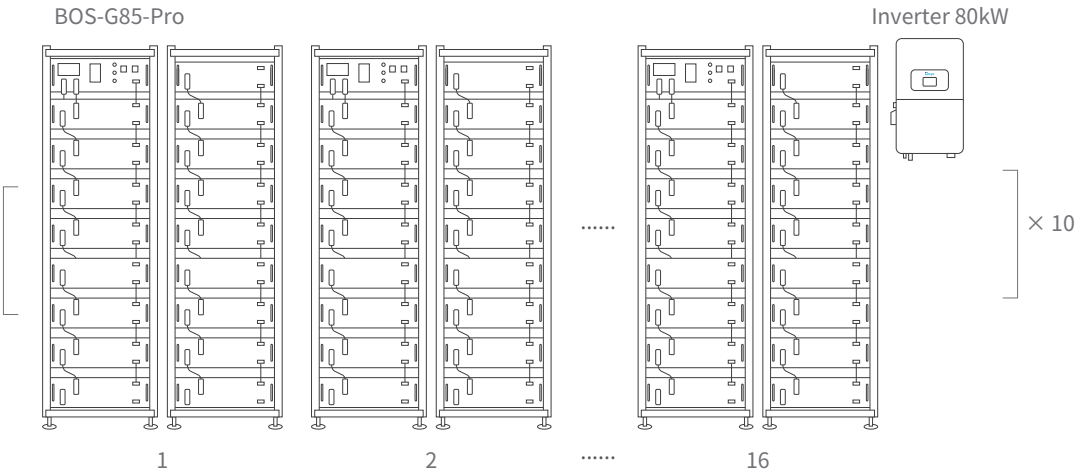
Maximum support for 16 racks of batteries in parallel



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

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