



Small-Scale C&I Energy Storage Solution

BOS-G

BOS-G



10-Year Warranty

Safest LFP battery & Intelligent BMS



Intelligent Control

Over-discharge/charge/current and temp protection



Battery Protection

Auto charge/discharge & Cell voltage balancing



High-Efficiency Use

Low self-discharge for 6 months & No memory effect



Flexible Expansion

Support 3 ~ 12 packs in series



Smart Control

Remote monitoring, management, and upgrades

Small-Scale C&I Energy Storage Solution



Model BOS-GX (X=15,20,25,30,35,40,45,50,55,60)

Main Parameters

Cell Chemistry	LiFePO ₄									
Module Energy (kWh)	5.12									
Module Nominal Voltage (V)	51.2									
Module Capacity (Ah)	100									
Battery Module Number	BOS-G15	BOS-G20	BOS-G25	BOS-G30	BOS-G35	BOS-G40	BOS-G45	BOS-G50	BOS-G55	BOS-G60
Battery Module Qty In Series (Optional)	3	4	5	6	7	8	9	10	11	12
System Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
System Operating Voltage (V)	124.8~175.2	166.4~233.6	208~292	249.6~350.4	291.2~408.8	332.8~467.2	374.4~525.6	416~584	457.6~642.4	499.2~700
System Energy (kWh)	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
System Usable Energy (kWh)	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
Rated DC Power	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
Charge / Discharge ² Current (A)	Recommend									
	Nominal									
	Peak Discharge (2 mins, 25°C)									
Working Temperature (°C)	50									
Status Indicator	100									
Communication Port	125									
Humidity	Charge : 0 ~ 55 / Discharge : -20~55									
Altitude	Yellow : Battery High Voltage Power On Red : Battery System Alarm									
IP Rating of Enclosure	CAN2.0 / RS485									
Dimension (W × D × H, mm)	5% ~ 85%RH									
Weight Approximate (kg)	≤2000m									
Installation Location	IP20									
Storage Temperature (°C)	530 × 602 × 1629					530 × 602 × 2219				
Recommend Depth of Discharge	195	240	285	330	375	420	475	520	565	610
Cycle Life	Rack Mounting									
Warranty ³	0 ~ 35									
Certificatio	100%									
	25±2°C, 0.5C/0.5C, EOL70%≥6000									
	10 years									
	CE / IEC62619 / VDE2510-50 / UL1973 / UL9540A / UN38.3									

1. DC Usable Energy, test conditions : 100% 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.

4. Made in China.

Model

BOS-G

HVB750V / 100A-EU

High Voltage Battery cluster control box conforming to European or British Standards

Operating Voltage120 ~ 750Vdc

Nominal Charge / Discharge Current100A

Max.Charge / Discharge Current125A

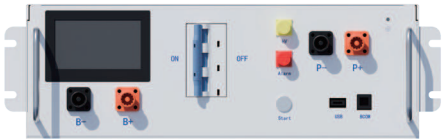
DC Input Rating12±2%V/4.15A

Operating Temperature Range-20 ~ 65°C

Ingress ProtectionIP20

Dimension (W × D × H)440 × 570 × 150mm

Weight Approximate19kg



BOS-GM5.1

5.12 kwh battery module

Battery TypeLiFePO₄ (LFP)

Nominal Voltage51.2Vdc

Rated Capacity100Ah

Rated Energy5.12kWh

Nominal Charge / Discharge Current100A

Peak.Discharge Current125A

Charge Temperature0 ~ 55°C

Discharge Temperature-20°C ~ 55°C

Storage Temperature0°C ~ 35°C

Ingress ProtectionIP20

Dimension (W × D × H)440 × 570 × 133mm

Weight Approximate45kg



Battery module Standard configuration:

① 110mm communication cable

② 200mm power cable



Model

BOS-G

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	

EPWR Cable5.0 (Optional)	Standard 5-meter cable connected to external 12VDC power supply
	

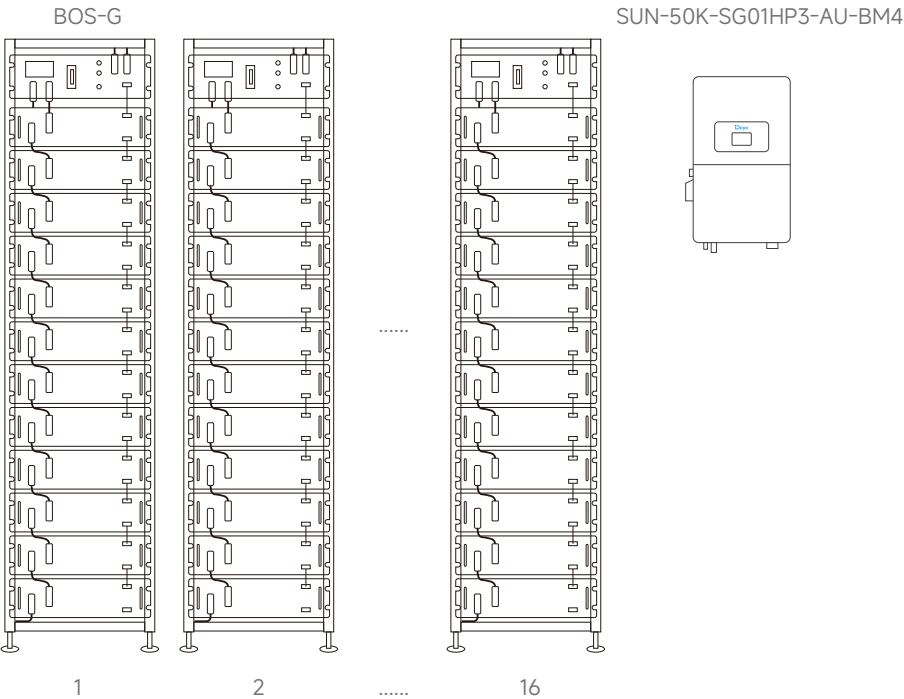
ECOM Cable5.0 (Optional)	Standard 5-meter communication cable connected to the external device
	

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	530 × 602 × 2219mm 51kg  HRACK(SKU:10100401000078) Can be installed with an optional door.

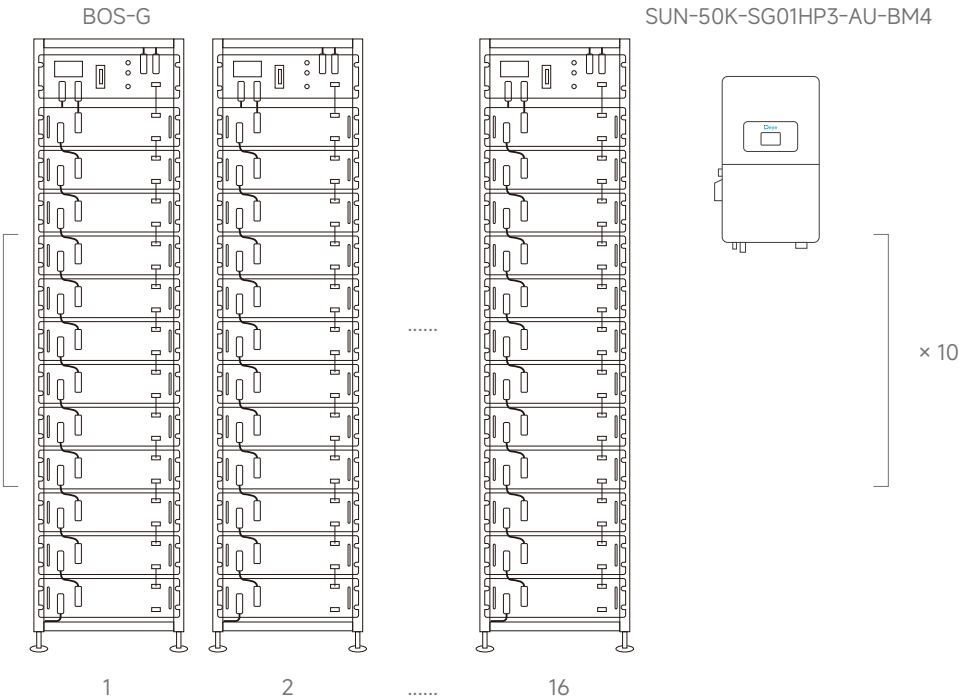
3U-LRACK (Optional)	Standard 19inch rack, caninstall 8 pcs batteries and 1 pcs High Voltage Battery cluster control box
Dimension (W × D × H) Weight Approximate	530× 602× 1629mm 41kg  LRACK(SKU:10100401000079) Can be installed with an optional door.

Product Expansion

Battery backup time	BOS-G			
Inverter	1h	2h	3h	4h
SUN-30K-SG01HP3-AU-BM3	6 units	12 units	9 units × 2	12 units × 2
SUN-50K-SG01HP3-AU-BM4	10 units	10 units × 2	10 units × 3	10 units × 4



Maximum support for 16 racks of batteries in parallel



Maximum support for 10 inverters in AC parallel operation

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