

SMALL-SCALE C&I ESS SOLUTION



19-Inch Embedded Design

- Comfortable for installation



High-Efficiency Use

- Low self-discharge for 6 months
- No memory effect



Intelligent Control

- Over-discharge/charge/current protection
- Over-high or low temperature protection

≥6000

Cycles

**Wide
Temperature**

-20°C to 55°C



19-Inch Embedded Design

- Auto charge and discharge
- Cell voltage balancing



Flexible Expansion

- Support 3 ~ 12 packs in series



Upgrade Options

- Support USB and Wi-Fi (optional) upgrades
- Support remote upgrades

70%

EOL

10 years

Warranty for long-term
peace of mind

Rack-Mounted Battery (HV)

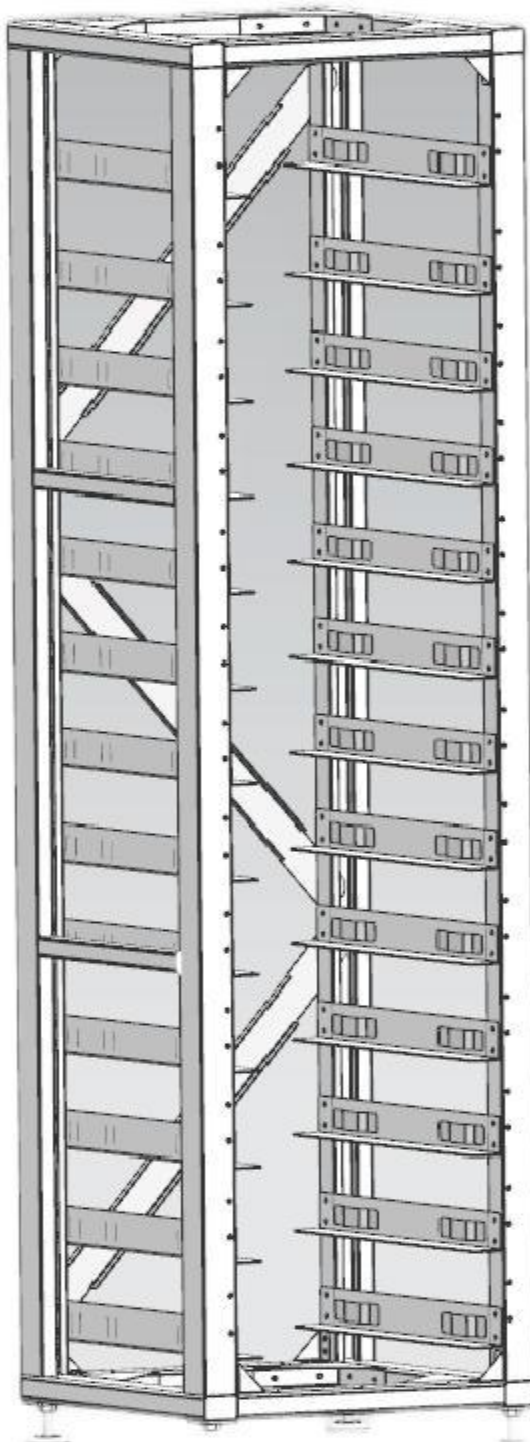
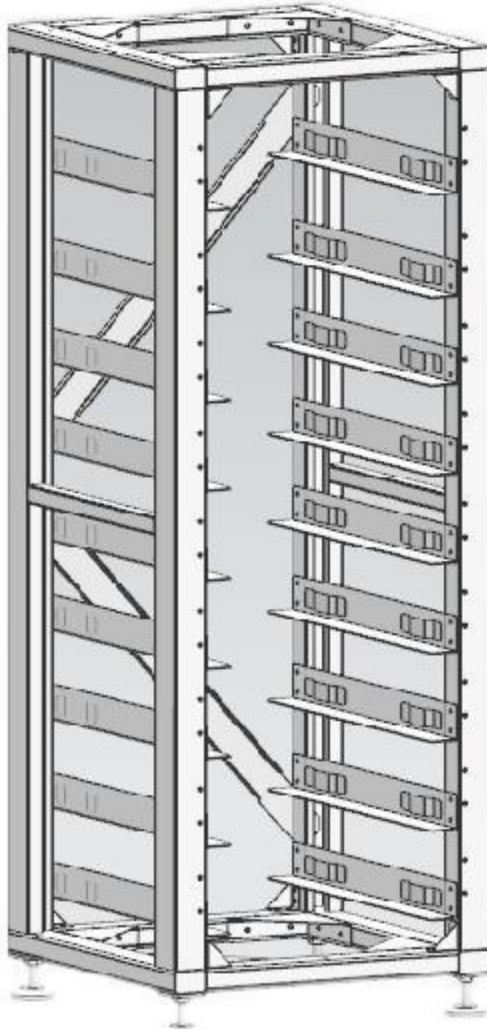
Model		BOS-GX (X=3, 4, 5, 6, 7, 8, 9, 10, 11, 12)									
Main Parameter											
Cell Chemistry		LiFePO ₄									
Module Energy (kWh)		5.12									
Module Nominal Voltage (V)		51.2									
Module Capacity (Ah)		100									
Battery Module Number		BOS-G15	BOS-G20	BOS-G25	BOS-G30	BOS-G35	BOS-G40	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)		13.82	18.43	23.04	27.64	32.25	36.86	41.47	46.08	50.68	55.29
Rted 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	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		≤2000m									
IP Rating of Enclosure		IP20									
Dimension (W × D × H, mm)		602 × 530 × 1610						602 × 530 × 2230			
Weight Approximate (kg)		435.6						634.9			
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									
Certificatio		CE / IEC62619 / VDE2510-50 / 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.
4. Made in China.

System Components

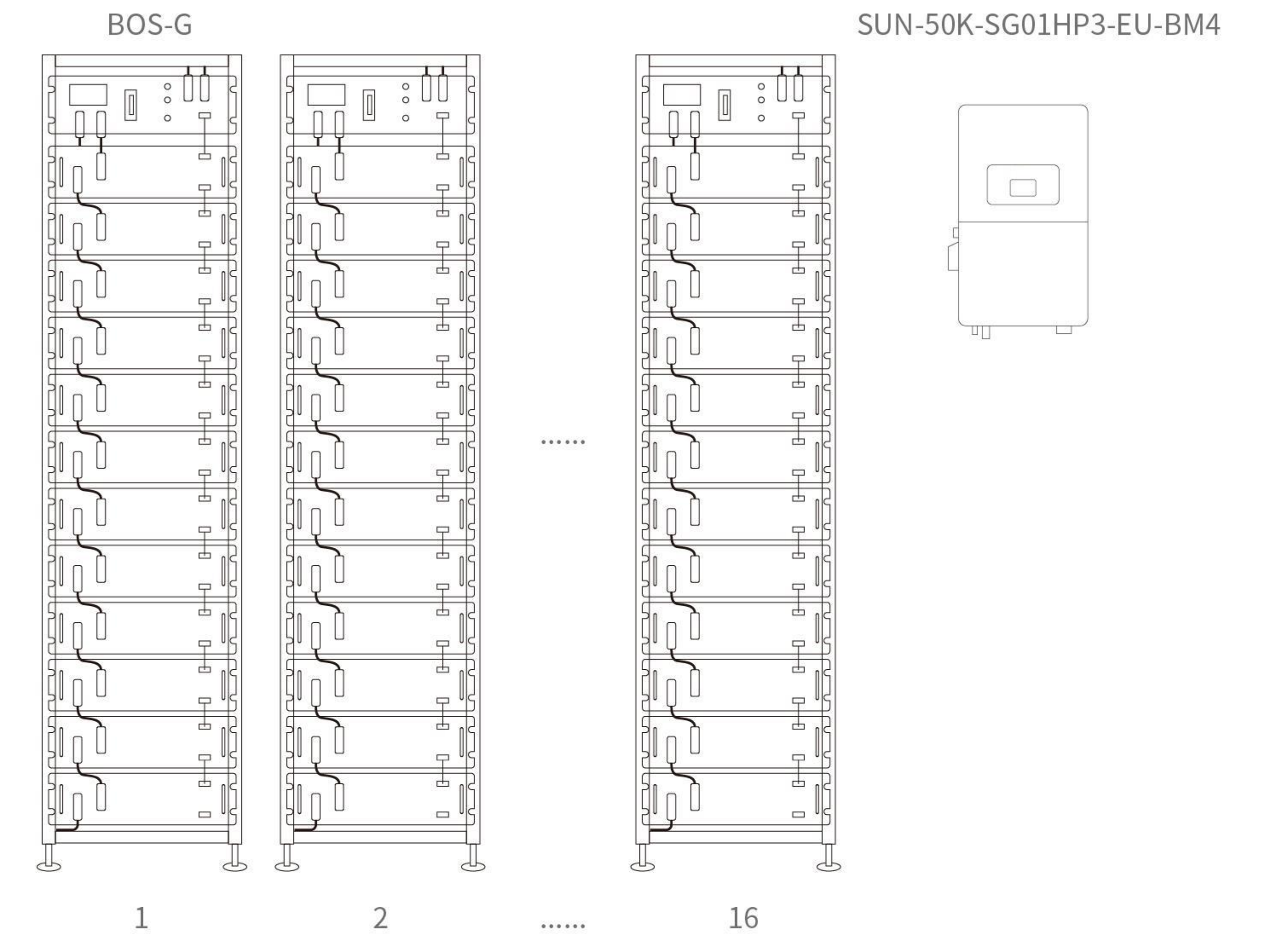
Model	Description
HVB750V / 100A-EU	High Voltage Battery cluster control box conforming to European or British Standards
Operating Voltage Nominal Charge / Discharge Current Max.Charge / Discharge Current DC Input Rating Operating Temperature Range Ingress Protection Dimension (W × D × H) Weight Approximate	120 ~ 750Vdc 100A 125A 12±2%V/4.15A -20 ~ 65°C IP20 530 × 450 × 200mm 15.5Kg
	
High voltage box Standard configuration : ① 120 ohm terminal resistance ② 140mm communication cable ③ 220mm power cable ④1.5m power cable (US Version) 2.1m power cable (EU Version) ⑤Power plug	
	
BOS-GM5.1	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	LiFePO ₄ (LFP) 51.2Vdc 100Ah 5.12kWh 100A 125A 0 ~ 55°C -20°C ~ 55°C 0°C ~ 35°C IP20 560 × 440 × 150mm 46.7Kg
	
	
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	

System Components

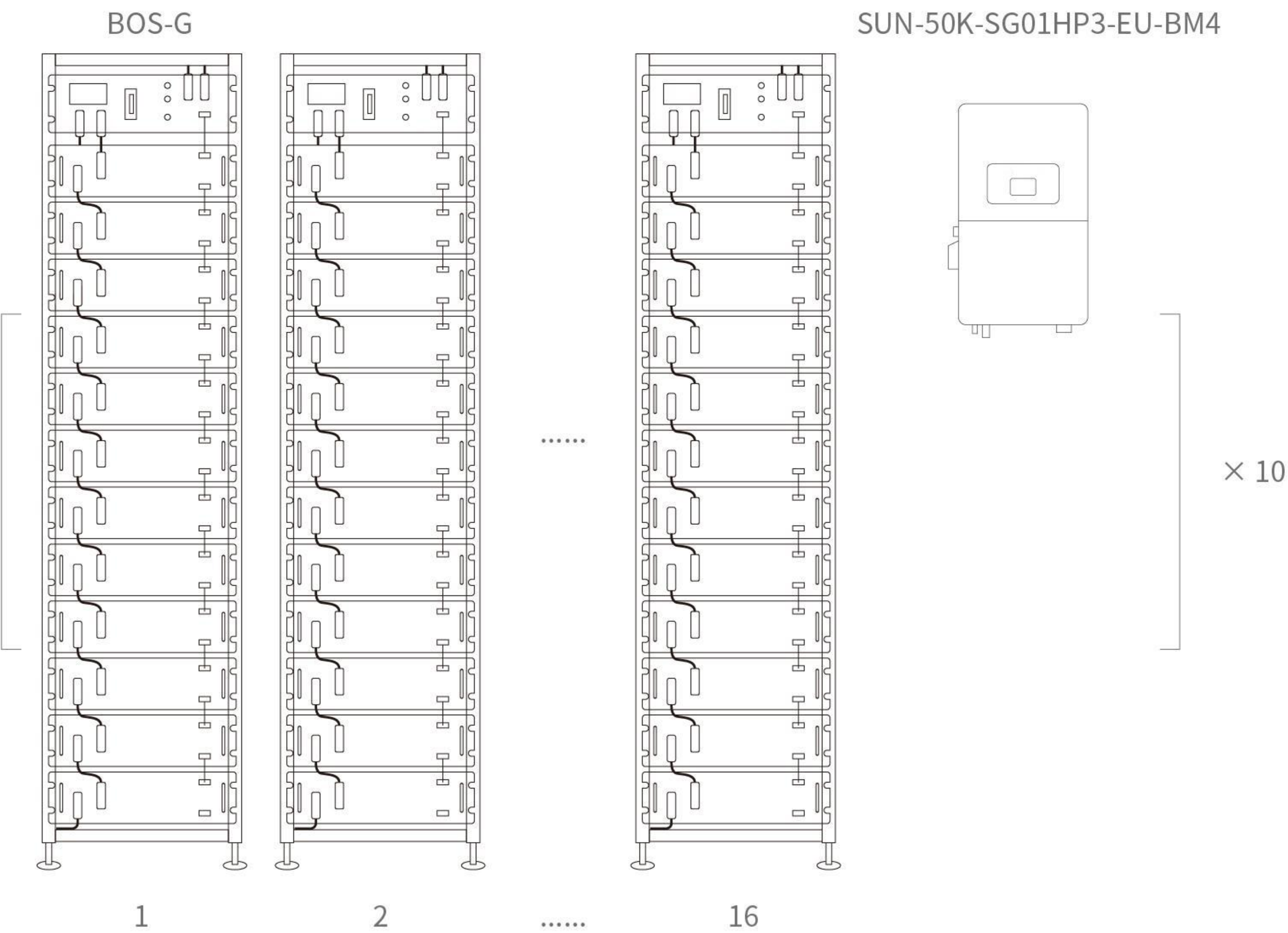
Model	Description	
EPWR Cable5.0 (Optional)	Standard 5-meter cable connected to external 12VDC power supply	
		
ECOM Cable5.0 (Optional)	Standard 5-meter communication cable connected to the external device	
		
3U-HRACK (Optional)	Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box	
Dimension (W × D × H) Weight Approximate	602 × 530 × 2230mm 59kg	
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	602 × 530 × 1610mm 46.5kg	

Product Expansion

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



To Make ESS Better

