

SMALL-SCALE C&I ESS SOLUTION

DEYE SUMMER **BOS** SERIES



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



Battery Protection

- 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

≥6000

Cycles

Wide
Temperature

-20°C to 55°C

70%

EOL

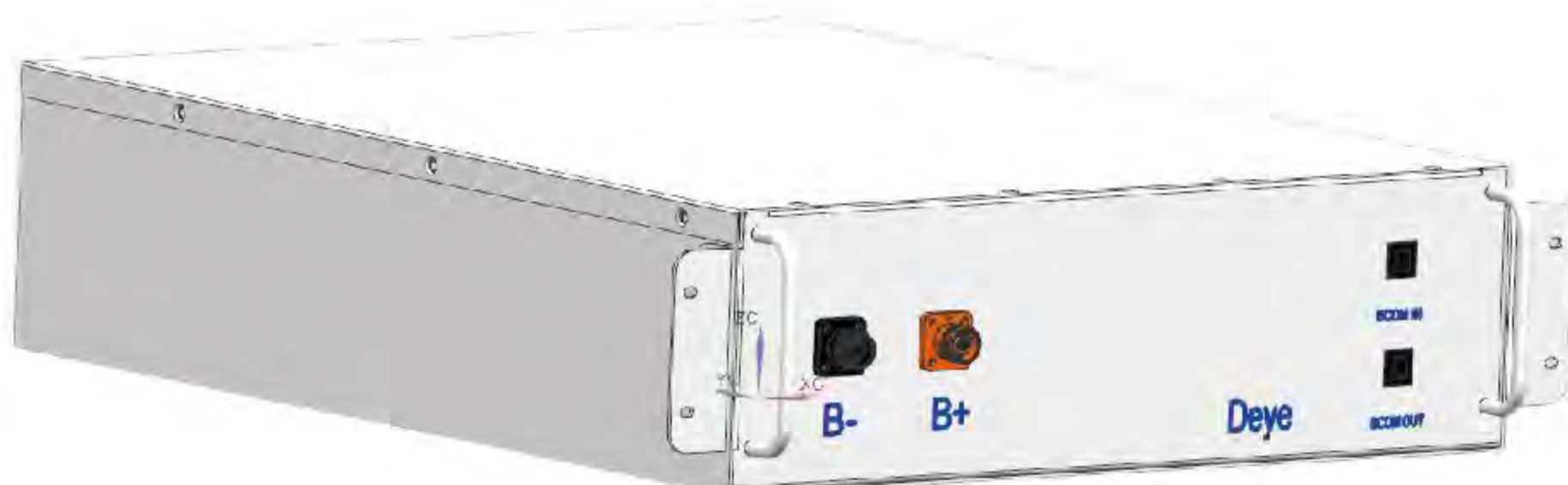
10 years

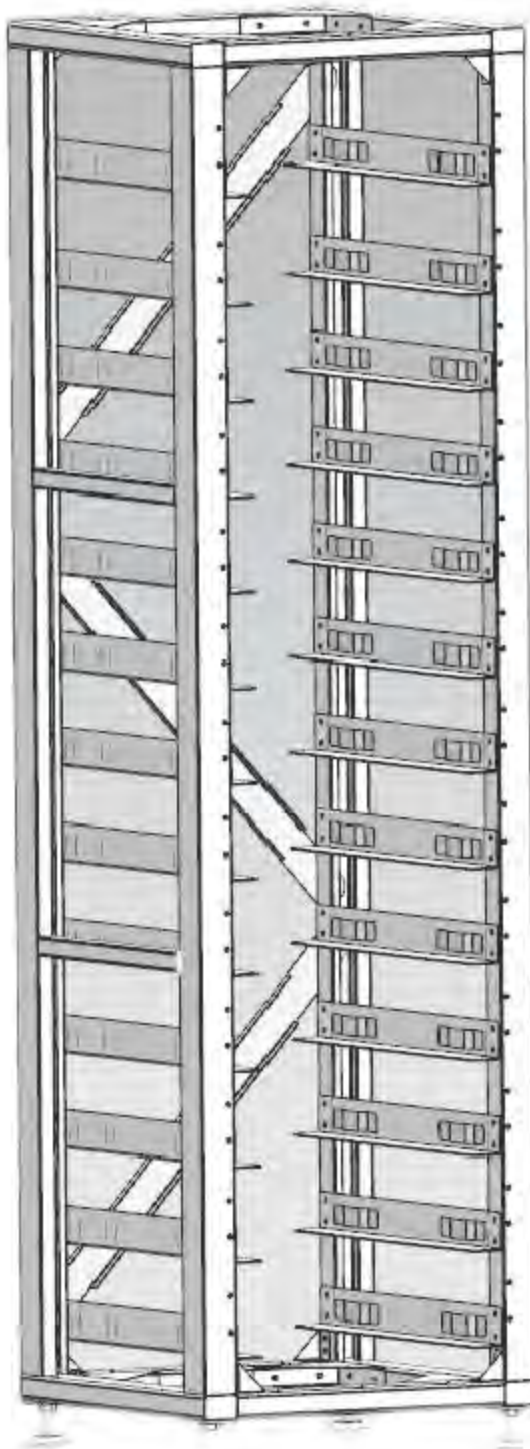
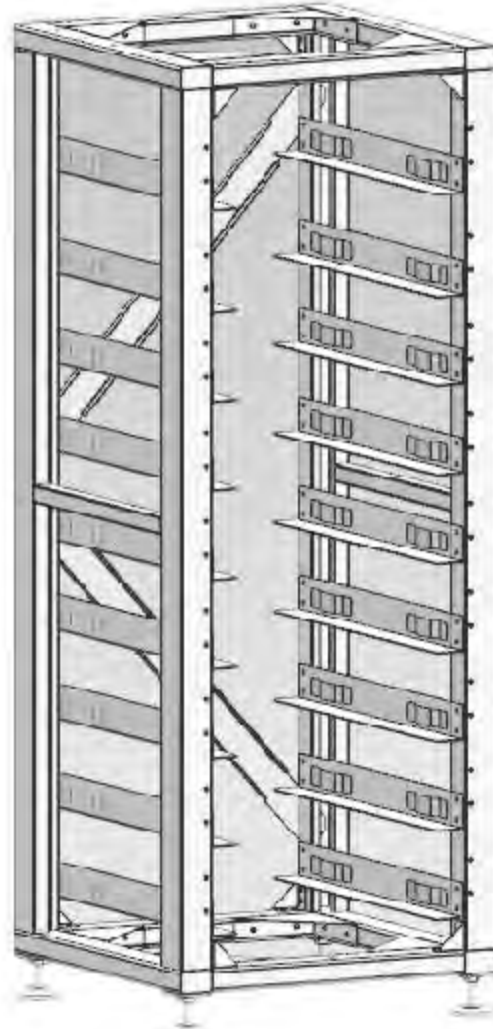
Warranty for long-term
peace of mind

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)		530 × 602 × 1629					530 × 602 × 2187				
Weight Approximate (kg)		388					562				
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									

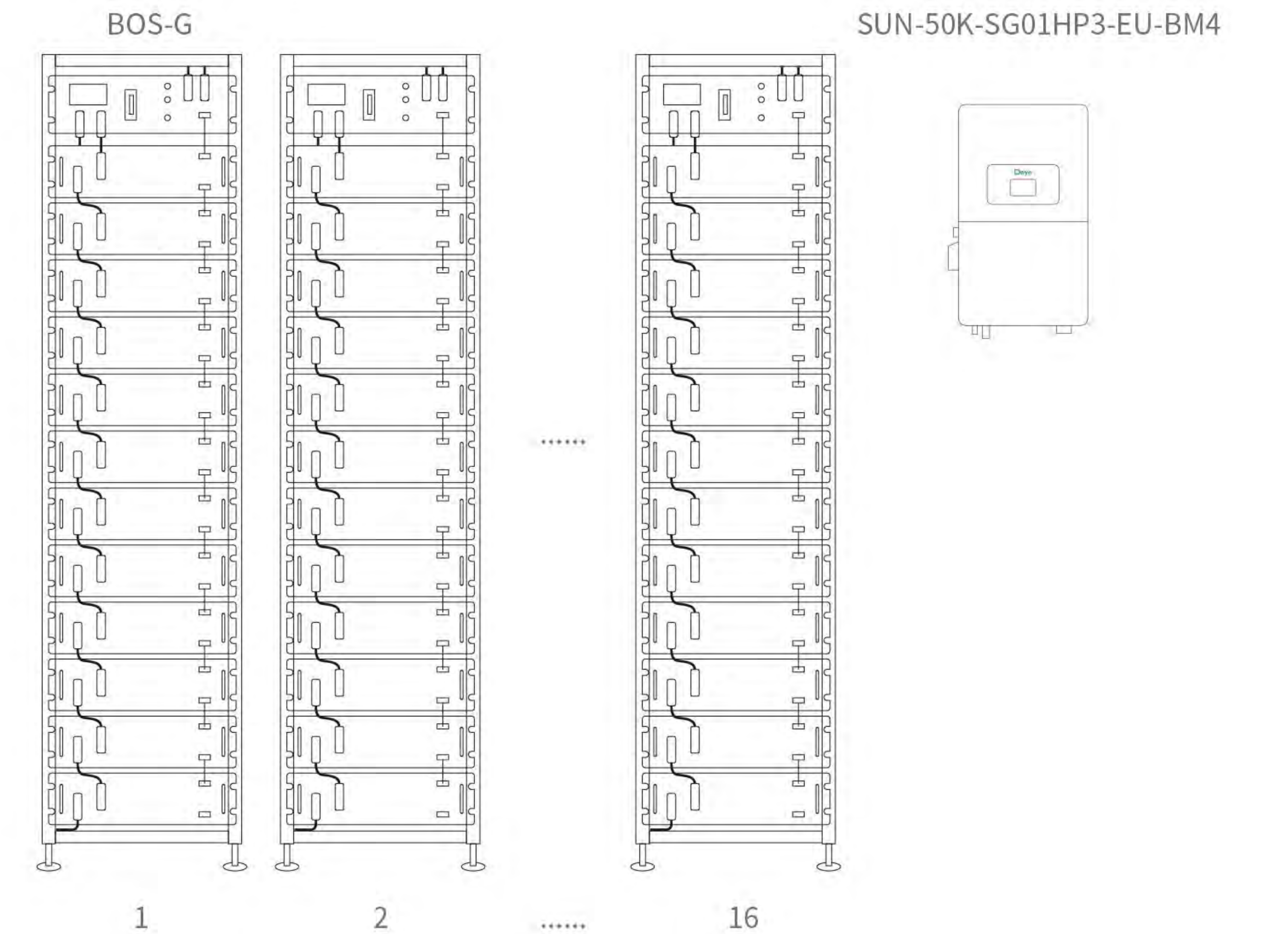
1. DC Usable Energy, test conditions : 90% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.
4. Made in China.

Model	Description	
HVB750V / 100A-EU	High Voltage Battery cluster control box conforming to European or British Standards	
Operating Voltage	120 ~ 750Vdc	
Nominal Charge / Discharge Current	100A	
Max.Charge / Discharge Current	125A	
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	
HVB750V/100A-US	High Voltage Battery cluster control box conforming to North American Standard	
Operating Voltage	120 ~ 750Vdc	
Nominal Charge / Discharge Current	100A	
Max.Charge / Discharge Current	125A	
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	20kg	
High voltage box Standard configuration :		
①	②	③
④	⑤	
① 120 ohm terminal resistance ② 140mm communication cable ③ 220mm power cable ④ 1.5m power cable (US Version) 2.1m power cable (EU Version) ⑤ Power plug		
BOS-GM5.1	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	125A	
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 × 570 × 133mm	
Weight Approximate	45kg	
Battery module Standard configuration:		
①	②	
① 110mm communication cable ② 200mm power cable		
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		

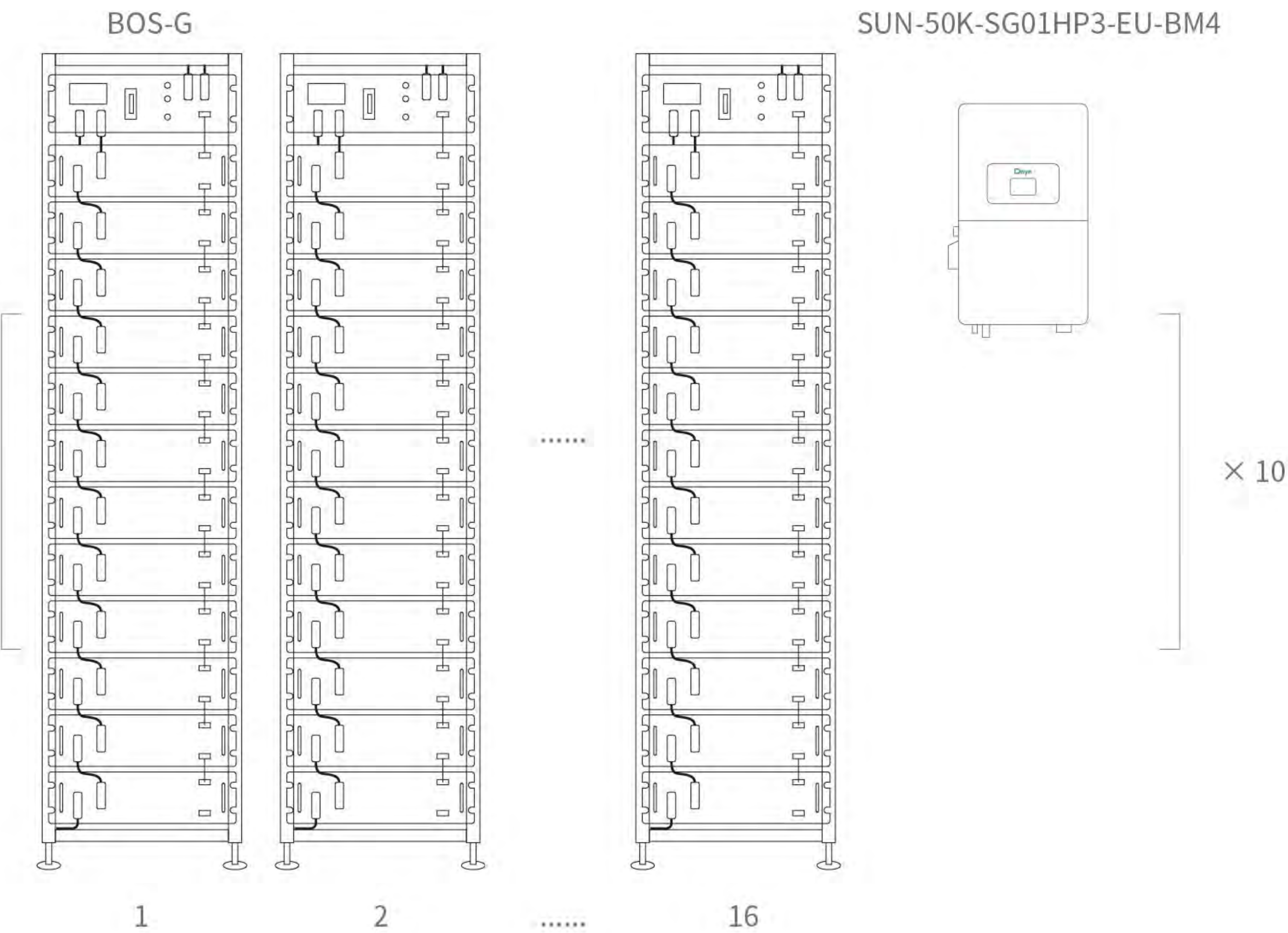
Model	Description	
EPWR Cable5.0 (Optional)	Standard 5-meter cable connected to external 12VDC power supply	
		
ECOM Cable5.0 (Optional)	Standard 5-meter communication cable connected to the external device	
		
3U-HRACK (Optional)	Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box	
Dimension (W × D × H) Weight Approximate	530 × 602 × 2187mm 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	

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



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