



HIGH VOLTAGE SERIES LI-ION RACK MOUNT SYSTEM



DATASHEET

HIGH VOLTAGE BATTERY

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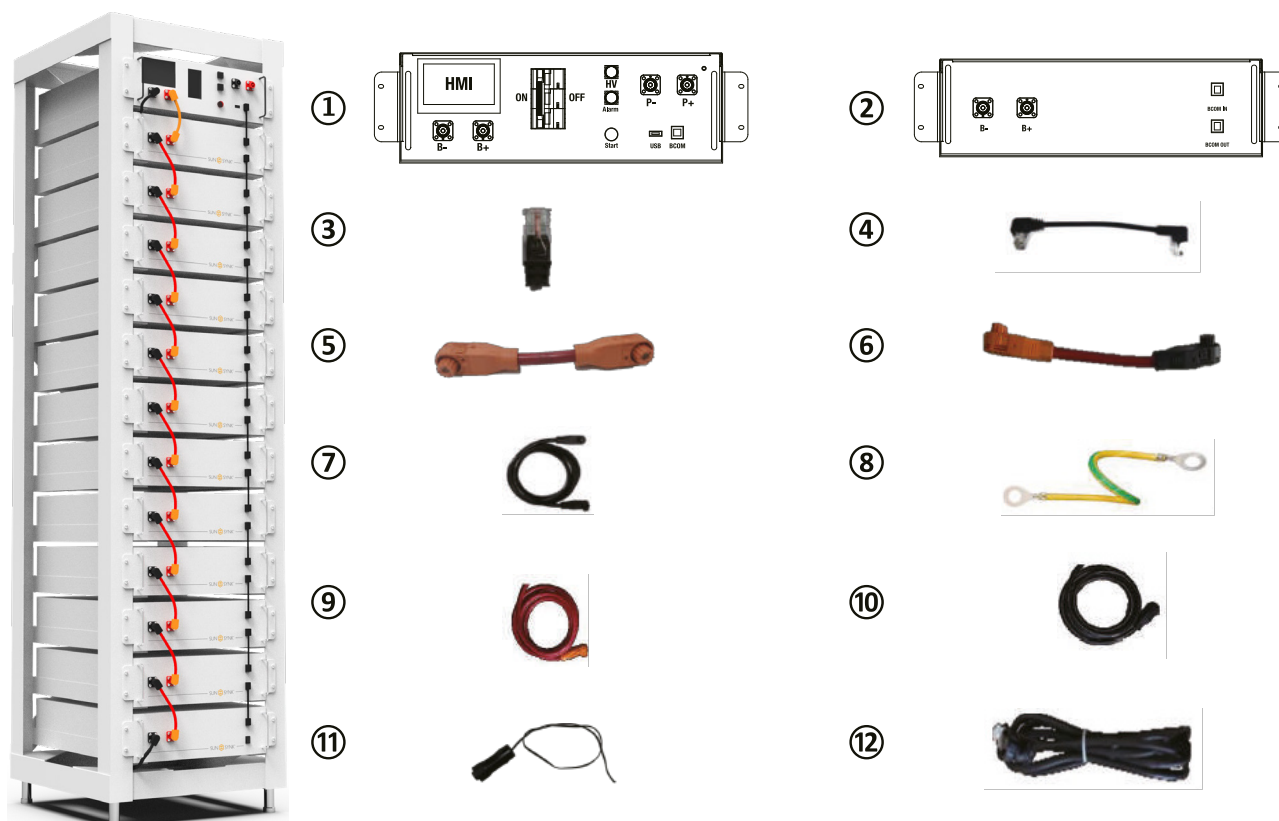
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TECHNICAL SPECIFICATIONS

Model		SUNSYNK-GX (X=15,20,25,30,35,40,45,50,55,60)									
Main Parameter											
Battery Cell Chemistry		Lithium Ferro Phosphate (LifePO ₄ or LFP)									
Module Energy		5.12 kWh									
Module Nominal Voltage		51.2 V									
Module Capacity		100 Ah									
Battery Model Number		G15	G20	G25	G30	G35	G40	G45	G50	G55	G60
Battery Module Qty In Series (Optional)		3	4	5	6	7	8	9	10	11	12
System Nominal Voltage		153.6V	204.8V	256V	307.2V	358.4V	409.6V	460.8V	512V	563.2V	614.4V
System Operating Voltage		124.8~175.2V	166.4~233.6V	208~292V	249.6~350.4V	291.2~408.8V	332.8~467.2V	374.4~525.6V	416~584V	457.6~642.4V	499.2~700V
System Energy		15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh	35.84 kWh	40.96 kWh	46.08 kWh	51.2 kWh	56.32 kWh	61.44 kWh
System Usable Energy ¹		13.82 kWh	18.43 kWh	23.04 kWh	27.64 kWh	32.25 kWh	36.86 kWh	41.47 kWh	46.08 kWh	50.68 kWh	55.29 kWh
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 Current ²	Recom-mend	50 A									
	Nominal	100 A									
	Peak Dis-charge	125 A (2 mins, 25 °C)									
Working Temperature		Charge: 0~55/Discharge: -20~55 °C									
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)		589*590*1640									589* 590* 2240
Weight Approximate		258 kg				434 kg					628 kg
Installation Location		Rack Mounting									
Storage Temperature		0~35 °C									
Recommend Depth of Discharge		90%									
Cycle Life		25±2°C,0.5C/0.5C, EOL70%≥6000									
Warranty ³		10 years									
Certification		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 cycle power.
4. Made in China.

SYSTEM COMPONENTS



No.	Description	Type	Quantity
1	High-voltage control box 750V/100A		1
2	5.12kWh battery module (general)		1
3	120ohm terminal resistor		1
4	Communication cable (110mm for battery module, 140mm for high-voltage control box)	Standard	12
5	220mm positive power cord of high-voltage control box	Standard	1
6	220mm positive power cord of battery module	Standard	11
7	The negative power cord of the high-voltage control box	Standard	1
8	140mm ground wire A (ground wire B for external connection of battery rack is not provided)	Standard connecting cable A (connecting the high-voltage control box)	1
9	Connected to external PCS positive power cord (EPCable5.0)	Optional	1
10	Connected to external PCS negative power cord (ENCable5.0)	Optional	1
11	Connected to external 12V power cord (EPWRCable5.0)	Optional	1
12	Connected to external device communication cable (ECOM Cable5.0)	Optional	1



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