



HIGH VOLTAGE SERIES LI-ION RACK MOUNT SYSTEM



DATASHEET

HIGH VOLTAGE BATTERY

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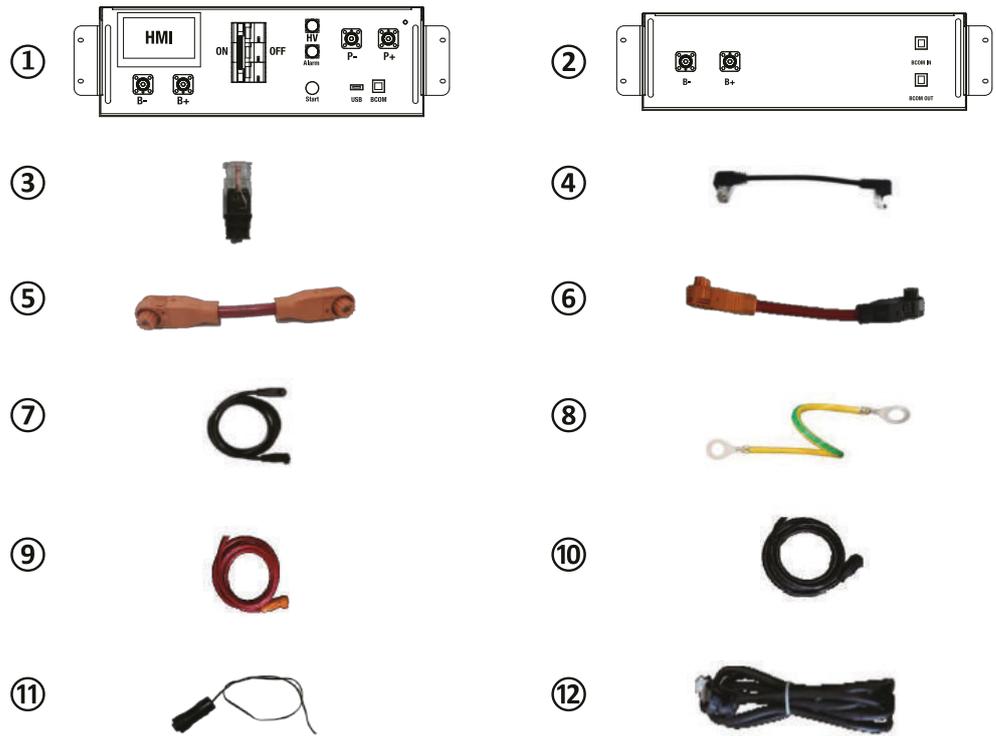
v.10 (20/05/25)

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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		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	Recom-mend	50 A										
	Nominal	100 A										
	Peak Discharge	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		10 years										
Certification		CE/IEC62619 / VDE2510-50 / UL1973 / UN38.3										

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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