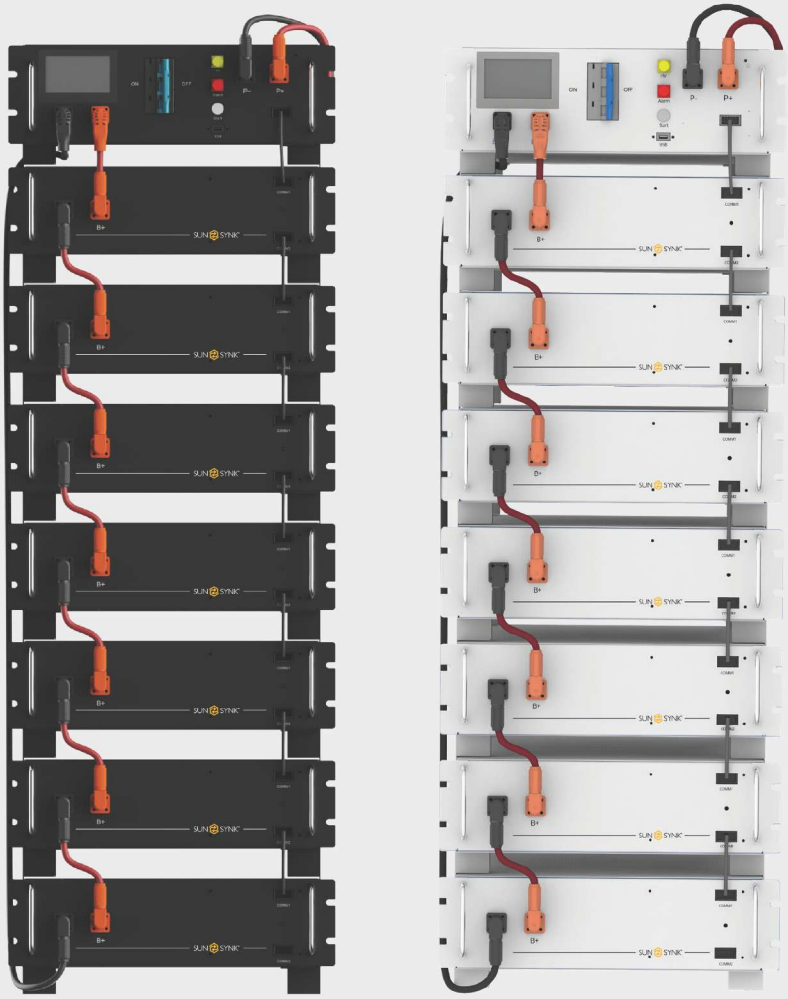
HIGH VOLTAGE SERIES
LI-ION RACK MOUNT SYSTEM



USER MANUAL

HIGH VOLTAGE BATTERY - SUNSYNK-W

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v.6 (07/05/25)

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Technical Data

Model		SUNSYNK-WX (X=25,30,35,40,45,50,55,60,65,70,75,80,85)			
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 Module Number		SUNSYNK-W25	SUNSYNK-W40	SUNSYNK-W60	SUNSYNK-W85
Battery Module Qty in Series (Optional)		5 (min)	8	12	17 (max)
System Nominal Voltage		256V	409.6V	614.4V	870.4V
System Operating Voltage		220~292V	352~467.2V	528~700.8V	748~992.8V
System Energy		25.6kWh	40.96kWh	61.44kWh	87.04kWh
System Usable Energy[1]		23.04kWh	36.86kWh	55.3kWh	78.33kWh
Rated DC Power		25.6kW	40.96kW	61.44kW	87.04kW
Charge/ Discharge Current[2]	Recommended	50A			
	Nominal	100A			
	Peak Discharge (2mins, 25 °C)	125A			
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		≤3000m			
IP Rating of Enclosure		IP20			
Dimensions (WxDxH, mm)		530× 602× 1629		530× 602× 2219	1060× 602× 1629
Weight Approximate		290kg	428kg	622kg	883kg
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/IEC 62619/ IEC 62040/UN38.3/VDE-2510			

[1] DC Usable Energy, test conditions: 90% DOD, 0.3C 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.