SUN-BATT-5.12-R-01



DATASHEET

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v.4 (22/12/25)

PLEASE RETAIN FOR FUTURE REFERENCE

Product Parameters

Note

Approvals and certification are subject to change without prior notice. Please confirm the current status with Sunsynk before placing an order.

Model	SUN-BATT-5.12-R-01
Main Parameter	
Battery Chemistry	$LiFePO_4$
Nominal Voltage	51.2Vdc
Nominal Capacity	100Ah
Battery Energy [1]	5120Wh
Operating Voltage Range	44.8Vdc~56.16Vdc
Nominal Charge/Discharge Current	50A
Max. Charge/Discharge Current [2]	98A
Communication	
Display	SOC Status Indicator, LED Indicator
Communication	CAN/RS485/RS232/Wi-Fi
General Specification	
Dimension (WxDxH)	470x160x635mm
Weight	49.5kg
Installation	Floor Stand or Wall Mounted
Operating Temperature [3]	Charge: 0 to 50°C Discharge: -15 to 50°C
Environmental Humidity	≤95%RH (No Condensation)
Protection Rating	IP65
Cycle Life [4]	6000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
Scalability	Max. 15 Batteries in Parallel
Application	On-Grid/On-Grid + Backup/Off-Grid
Compatible Inverters	Refer to Compatible Inverter List (Compatible with Major PCS Brands)
Standard Compliance	
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Warranty	See website for Warranty details
Ordering and Deliverable Parts	
Parts	SUN-BATT-5.12-R-01 Battery SUN-BATT-5.12-R-01 Parallel Cable SUN-BATT-5.12-R-01 to PCS Cable

[1] Test conditions: 100% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C.

[2] There is 0.5C or 1C configurations optional in factory default.

[3] Charge/discharge derating occurs when the temperature is below 0°C or above 45°C.

[4] Please refer to the Warranty Letter for applicable conditions, the warranty is due whichever comes first.



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