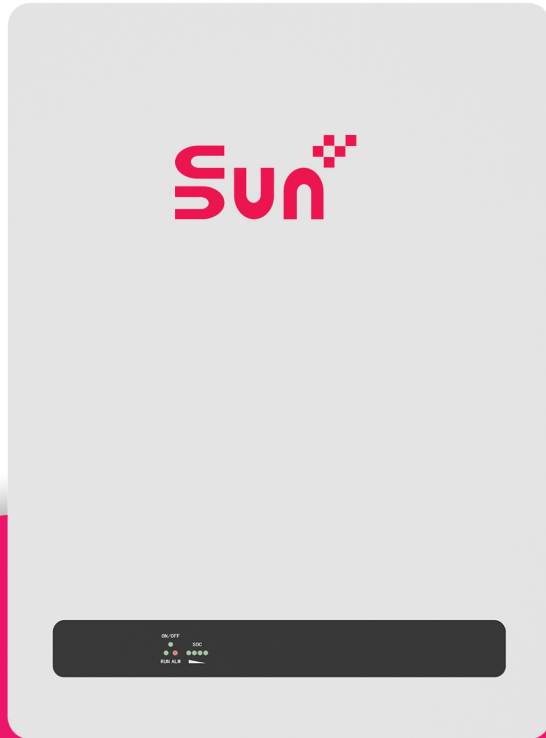




LITHIUM ION BATTERY DATASHEET



100 Ah
51.2V

MORE POWER IN LESS SPACE

The Sunplus Lithium Iron Phosphate (LiFePO₄) battery uses safety certified cells. Equipped with redundant safety features, the Sunplus lithium battery is the safest in the market today. Specifically designed to withstand the harsh The Sunplus lithium battery lasts up to 6,000 cycle¹ compared to a traditional lead acid or AGM battery, which typically lasts 400–500 cycles.



Internal BMS - reduces footprint



Multi Brand Inverter Compatible



Cell Balancing - extends lifetime of battery



Connect to the mobile app to view



Automotive Grade Battery Cell



Parallel Stack up to 15 batteries

APPLICATION :



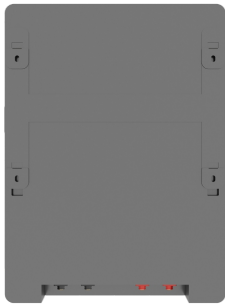
10 YEAR
WARRANTY²

www.wesunplus.com

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V1. 03.23.2022

¹Up to 6,000 Cycles under ideal conditions

²For full warranty details, please refer to our warranty policy document
PRELIMINARY DATASHEET. SPECS SUBJECT TO CHANGE.



BACK VIEW



SIDE VIEW



BOTTOM VIEW



BATTERY DIMENSION

5.9"
150mm

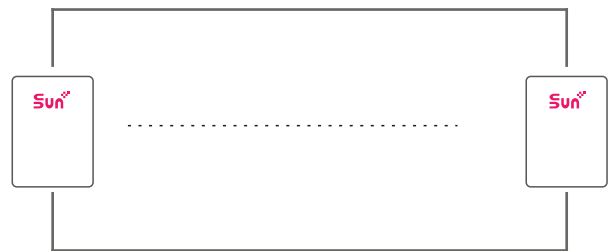


18.9"
480mm

25.6"
650mm

PARALLEL STACK UP TO 15 BATTERIES

+



-

BATTERY SPECIFICATION

Part Number	SPM48100-W
Battery Voltage	51V
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Nominal Watt Hours	5120Wh
Battery Cell	LiFePO4
Internal Impedence	<6m Ω
Charge Voltage	58.4V
Recommended Float Charge Voltage	54.4 – 56V
Recommended Charge Current	80A
Allowed Max Charge Current	100A
Output Voltage Range	44.8 – 57.6V
Recommended Discharge Current	50A
Max Discharge Current	100A
Max Continuous Discharge Current	100A
Pulse Discharge Current	120A (15s)
Discharge Cut-off Voltage	40V
Parallel Function	Max 15 Units In Parallel
Communication Protocol	RS485, RS232, CAN (Optional)
Cycle Life to 80% Health	6000 (0.5°C, 25°C, 80% depth of discharge) – increase cycle life with ideal conditions

ENVIRONMENTAL SPECIFICATIONS

Charging Temperature Range	32 – 131°F (0 – 55°C)
Discharging Temperature Range	-4 – 131°F (-20 – 55°C)
Storage Period 1 Week	-4 – 113°F (-20 – 45°C)
Storage Period 1 Month	14 – 113°F (-10 – 45°C)
Storage Period 6 Months	50 – 77°F (10 – 25°C)

MECHANICAL SPECIFICATIONS

Dimensions	18.9" x 25.6" x 5.9" (480mm x 650mm x 150mm)
Weight	117.0lbs (55.1kg)
Battery Terminals	Rebling 7010-3 (5/16" Holes)
Carrying Capability	Two recessed handles
Mounting Orientation	Side label or top label up
Installation	Wall mounted

CERTIFICATION

U.N. International Approval	UL1642 / IEC62619 / CE / ROHS / MSDS / UN38.3
Product Warranty	5 Years
Performance Warranty	10 Years

Specifications are subject to change without notice.

CONTACT

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