



## Power Lite Lithium Battery System L051100-A



Model Number: SSLB1

# DATASHEET

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## INTRODUCTION

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Thank you for choosing Sunsynk's energy storage system.

The energy storage module includes lithium-ion rechargeable batteries with 5.12 kWh capacity, and the controller enables a central of multiple modules.

This manual provides all technical information about the Power Lite Lithium Battery System L051100-A. Please read this manual carefully before using the equipment and keep this manual handy for reference.

### ■ Long Life Span

The battery can be expected to remain serviceable for more than 10 years, considering that it is charged and discharged once in a day at room temperature (25°C).

### ■ Stable

Olivine-type lithium iron phosphate batteries with excellent thermal stability and storage characteristics are used in this product. The module also incorporates a self-monitoring function for the detection of any abnormalities in energy storage.

### ■ Compact Design

The height is nicely designed in 3U, in favor of standard industrial applications.

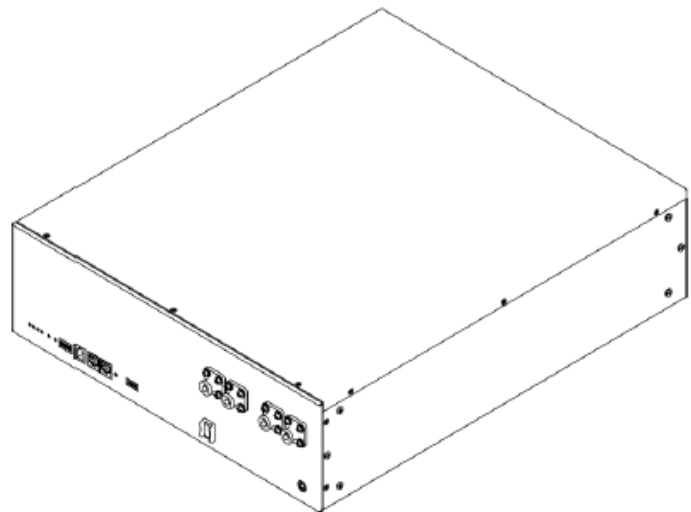
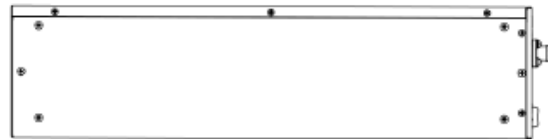
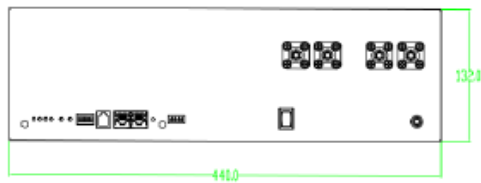
### ■ High Scalability

Multiple energy storage modules can be connected in parallel, and the capacity can be customized according to the intended use.

## SPECIFICATIONS

L051100-A dimensions are presented in **Error! Reference source not found.** It is well designed for 19-inch cabinet.

Power Lite Lithium Battery System L051100-A	
Depth	530mm
Width	440mm
Height	132mm
Weight	48kg



<b>Power Lite Lithium Battery System L051100-A</b>	
Cell Type	Lithium Ferro Phosphate (LifePO4 or LFP)
Nominal Operating Voltage	51.2V
Nominal Capacity	100Ah / 5.12kWh
Depth of Discharge (DoD)	100%
Usable Capacity	5.12kWh
Packing	1P16S
IP Rating	IP20
Minimum Operating Voltage	44.8V
Maximum Operating Voltage	57.6V
Standard Charging Current	50A
Max. Continuous Charging Current	50A
Standard Discharging Current	50A
Max. Continuous Discharging Current	100A (1C, 25°C ± 2°C)
Max. Pulse Discharging Current	200A (2C, 30S, 25°C ± 2°C SOC≥40%)
Standard Charging Method	0.5C CC to 57.6V, CV at 57.6V till current is 0.05C
Min. Operating Temperature (no derating)	Charging: 0°C / Discharging: -20°C
Max. Operating Temperature (no derating)	Charging: 50°C / Discharging: 55°C
Operating ROH	20% ~ 80%
Storage Temperature	-20 ~ 50°C
Self-discharging rate	≤5% (25°C, 50% SoC)
SoC @ end of product line	40%
Insulation Resistance	>100MΩ
Voltage Difference in each module	≤20mV
Inner Resistance of single Cell	0.34 ± 0.05mΩ (fresh cell 30 ~ 40% SoC)
Altitude	Below 2000m
Weight	48kg
Dimensions	440 x 530 x 132mm (not include connector, MSD and other parts)
Expected Life @ 25°C	Greater than 10 years if used as per warranty terms



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