

SUNSYNK-L5.1

Dimension

440x640x140mm

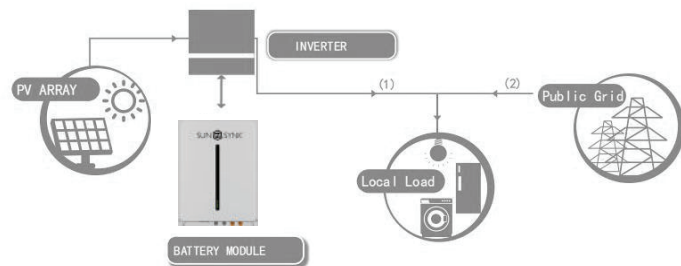


The spring series lithium iron phosphate battery is one of new energy storage products developed and produced by SUNSYNK, it can be used to support reliable power for various types of equipment and systems.

This series is especially suitable for application scene of high power, limited installation space, restricted load-bearing and long cycle life.

This series has built-in BMS battery management system, which can manage and monitor cells information including voltage, current and temperature. What's more, BMS can balance cells charging and discharging to extend cycle life.

Multiple batteries can connect in parallel to expand capacity and power for larger capacity and longer power supporting duration requirements.



The picture is only an effect picture, please refer to actual product. The final interpretation right belongs to SUNSYNK.

Convenient: Quick installation, Wall mounted and standard of 19-inch embedded designed module is comfortable for installation and maintenance.

Flexible Configuration: Multiple battery modules can be in parallel for expanding capacity and power. Support remote upgrade (Compatible with SUNSYNK inverter).

Safe & Reliable: Cathode material is made from LiFePO4 with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

Intelligent BMS: It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

Eco Friendly: The whole module is non-toxic, on-polluting and environmentally friendly.

Wide Temperature: Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

SUNSYNK-L5.1 Technical Specification

Main Parameter		SUNSYNK-L5.1
Battery Chemistry		LiFePO4
Capacity (Ah)		100
Scalability		Max.32 pcs in parallel(163.8kWh)
Nominal Voltage (V)		51.2
Operating Voltage (V)		43.2~57.6
Energy (kWh)		5.12
Usable Energy (kWh) [1]		4.61
Charge/Discharge Current (A)	Recommend [2]	50
	Max. [2]	100
	Peak(2mins,25°C)	150
Other Parameter		
Recommend Depth of Discharge		90%
Dimension (W/H/D)mm		440*640*140
Weight Approximate (kg)		50
Master LED Indicator		5 LED (SOC 20%~100%)
		3 LED (working, alarming, protecting)
IP Rating of Enclosure		IP65
Working Temperature		Charge:0°C~55°C Discharge:-20°C~55°C
Storage Temperature		0°C~35°C
Humidity		5%~95%
Altitude		≤2000m
Cycle Life		≥6000(25±2°C,0.5C/0.5C,70%EOL)
Installation		Wall Mounted or 19-inch standard cabinet
Communication Port		CAN2.0, RS485
Warranty Period [3]		5 years
Life Cycle Power During Warranty Period [3]		16MWh@70%EOL
Certification		IEC62619, CE, UN38.3

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C 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.