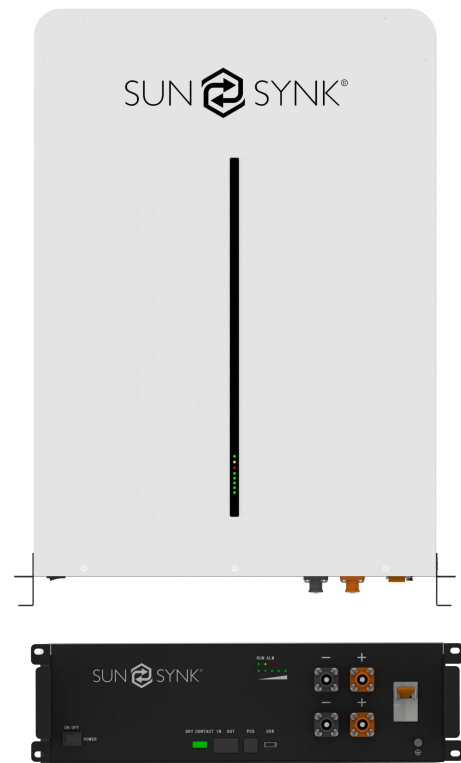


SUNSYNK-G5.1

Introduction

- ◆ This 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 battery is especially suitable for application scene of high power, limited installation space, restricted load bearing and long cycle life.
- ◆ This battery 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 to extend cycle life.
- ◆ Multiple batteries can connect in parallel for larger capacity and longer power supporting duration requirements.



Features

◆ Convenient

Quick installation, Wall mounted designed, convenient for installation and maintenance.

◆ Safe and reliable

Cathode material is made from LiFePO_4 with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging, no memory effect, excellent performance of deep 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

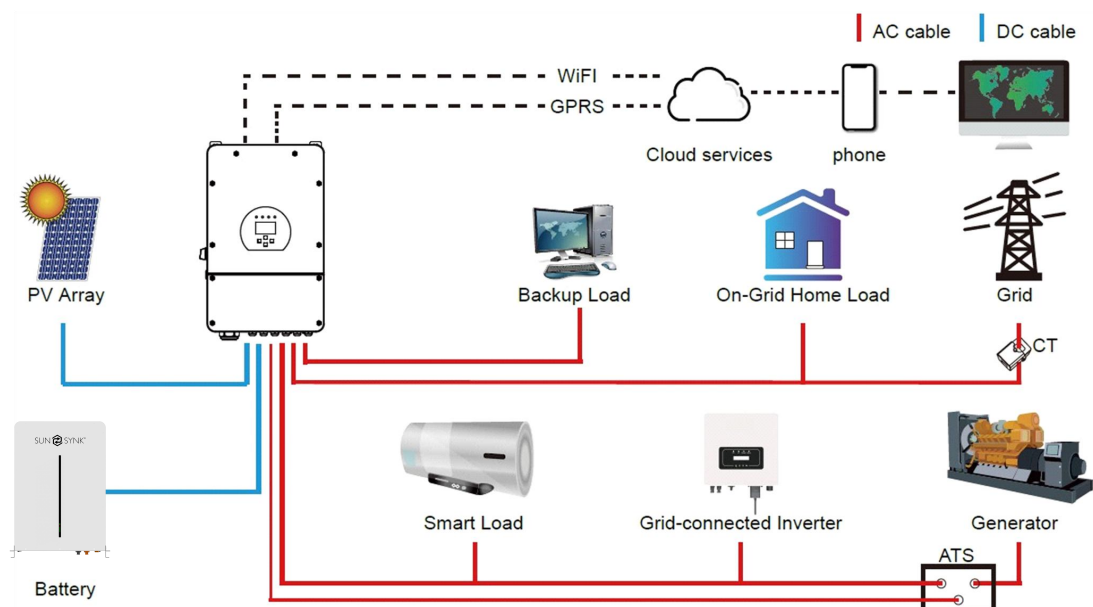
The whole module is non-toxic, on-polluting and environmentally friendly.

◆ Flexible configuration

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

◆ Wide temperature

IP20 designed, Natural cooling, Operation temperature range is from -20°C to 55°C .



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

Technical Data

Main Parameter		SUNSYNK-G5.1
Battery Chemistry		LiFePO ₄
Capacity (Ah)		100
Scalability		Max.32 pcs in parallel(163.8kWh)
Nominal Voltage (V)		51.2
Operating Voltage(V)		44.8~57.6
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		80%
Dimension (W/H/D, mm)		440*600*133(Don't include Circuit Breaker, terminals and hanging boards)
Weight (kg)		44
Master LED indicator	5 LED (SOC 20%~100%)	
	3 LED (working, alarming, protecting)	
IP Rating of enclosure		IP20
Working Temperature		Charge:0°C~+55°C Discharge: -20°C~+55°C
Storage Temperature		-20°C~+35°C
Humidity		5%~95%
Altitude		≤2000m
Cycle Life		≥6000(25±2°C,80%DOD,0.5C/0.5C,70%EOL)
Installation		Wall-Mounted (support 19-inch standard cabinet)
Communication Port		CAN2.0, RS485
Warranty Period ^[3]		5 years
Life Cycle Power During Warranty Period ^[3]		8MWh@70%EOL
Certification		UN38.3

[1] DC Usable Energy, test conditions: 90% DOD, 0.2C 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 energy throughput.

Battery Appearance



DC 125A Circuit Breaker

