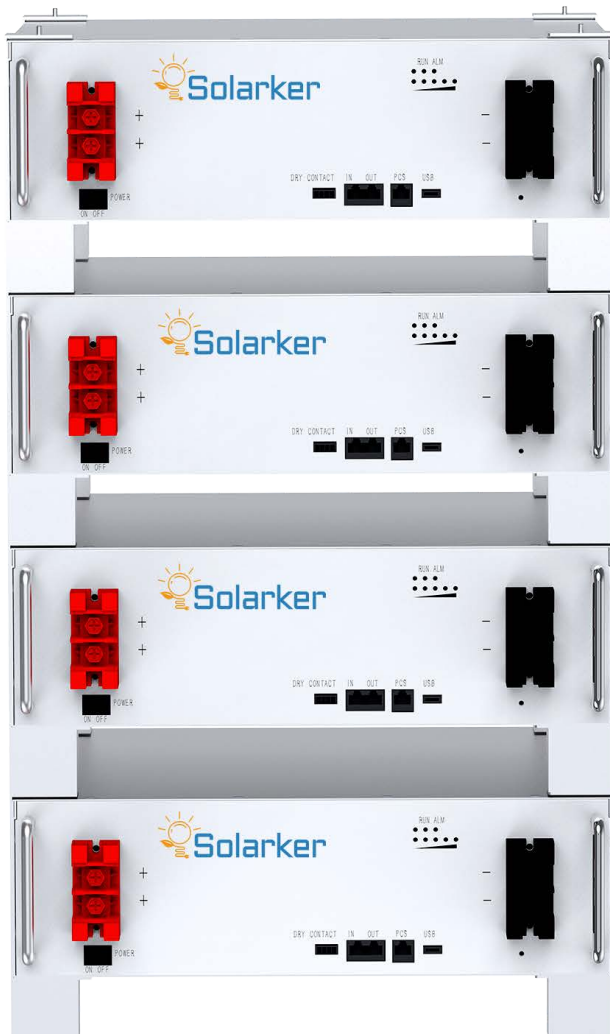


# SE-G5.1 Pro



#### ◆ Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery: Safety and long Lifespan, high efficiency and high-Power density. Intelligent BMS, providing complete protection.

#### ◆ Reliable

Support high discharge power. IP20, natural cooling, wide temperature range: -20°C to 55°C.

#### ◆ Flexible

Modular design, easy to expand, Max. 64 units in parallel, Max. capacity of 327kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.

#### ◆ Convenient

Battery module auto networking, Automatic IP addressing, Easy maintenance, remotely monitoring and upgrade, Support USB drive upgrade the firmware.

#### ◆ Eco-Friendly

Use environmental protection materials, the whole module non-toxic, pollution-free.

# Technical Data

Model		SE-G5.1 Pro
<b>Main Parameter</b>		
Battery Chemistry	LiFePO4	
Capacity (Ah)	100	
Scalability	Max. 64 pcs pack (327kWh) in parallel (Max. 32 pcs no external setup)	
Nominal Voltage (V)	51.2	
Operating Voltage(V)	43.2~57.6	
Energy (kWh)	5.12	
Usable Energy (kWh) <sup>[1]</sup>	4.61	
Charge/Discharge Current (A)	Recommend <sup>[2]</sup>	50
	Max. <sup>[2]</sup>	100
	Peak(2mins,25°C)	150
<b>Other Parameter</b>		
Recommend Depth of Discharge	90%	
Dimension (W/H/D, mm)	445*133*430	
Weight Approximate(kg)	44	
Master LED Indicator	5LED(SOC:20%~SOC100%),3LED (working, alarming, protecting)	
IP Rating of Enclosure	IP20	
Operating Temperature	Charge:0~55°C / Discharge:-20°C~55°C	
Storage Temperature	0°C~35°C	
Humidity	5%~95%	
Altitude	≤2000m	
Cycle Life	≥6000(25°C±2°C,0.5C/0.5C,70%EOL)	
Installation	19-inch standard cabinet, cabinet depth ≥600mm / with rack	
Communication Port	CAN2.0, RS485	
Warranty Period <sup>[3]</sup>	10 years	
Energy Throughput <sup>[3]</sup>	16MWh@70%EOL	
Certification	UN38.3, UL1973, IEC62619, CE, CEI 0-21	

[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.

## Introduction

This series lithium ion battery is one of new energy storage products developed and produced by Solarker, 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 in parallel for larger capacity and longer power supporting duration requirements.

Model	Accessories Parts Description	Remark
3U-LBCable	Battery Parallel Cable (Config Free)	Battery power and communication parallel connection cable
3U-LRfe	Battery Rack Fixed Ears (Config Free)	Used for battery fixing with 19inch rack or cabinet
3U-Bracket	Battery Brackets (Optional)	Simple stacking bracket, 1 unit including 4 pcs brackets, Max. stacking 4 floors
3U-HRack	Battery Rack (Optional)	Standard 19inch rack, can install 10 pcs batteries
3U-LPCable	Hybrid inverter Cable (Optional)	Battery power and communication cable connect with hybrid inverter



**Model: 3U-LBCable**

**Details:** Pair of 300mm 4AWG Power cable and 300mm RJ45 communication cable for battery parallel



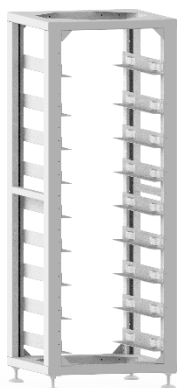
**Model: 3U-LRfe**

**Details:** Pair of rack fixed ears used for battery fixing with 19inch rack or cabinet



**Model: 3U-Bracket**

**Details:** Simple stacking bracket, height 187mm, 1 unit including 4 pcs brackets, Max. stacking 4 floors



**Model: 3U-HRack**

**Details:** Standard 19inch rack, can install 10 pcs batteries



**Model: 3U-LPCable**

**Details:** Pair of 4AWG Battery power cable and RJ45 communication cable connect with hybrid inverter. The cable length can be customized based on customer requirements, default length is 2000mm.