

# 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, easy maintenance, support remotely monitoring and upgrade, support USB drive upgrade the firmware.

- ◆ **Eco-Friendly**

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

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 iron phosphate battery is one of new energystorage products developed and produced by Deye, 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 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.