

SE-G5.1/5.1 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. Natural cooling, wide temperature range: -20°C to 55°C.

◆ **Flexible:**

Modular design, easy to expand, Max. 32 units in parallel, Max. capacity of 163.8kWh.

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.

Model		SE-G5.1	SE-G5.1 Pro
Main Parameter			
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	
Charg/Discharging Current(A)	Recommend ^[2]	50	
	Max ^[2]	100	
	Peak (2 mins,25°C)	150	
Other Parameter			
Depth of Discharge (%)		90%	
Dimension (W/H/D,mm)		445*133*430	
Weight Approximate (kg)		45	
Master LED indicator		5LED(SOC:20%~100%), 3LED(working,alarming,protecting)	
IP Rating of Enclosure		IP20	
Altitude		≤2000m	
Working Temperature		Charge: 0~55°C/Discharge: -20~55°C	
Storage Temperature		0°C ~ 35°C	
Humidity		5%~95%	
Cycle Life (25±2 °C ,0.5C/0.5C,80%EOL)		≥4000	≥6000
Installation Location		19-inch standard cabinet, cabinet depth ≥600mm / with rack	
Communication Port		CAN2.0, RS485	
Warranty		5 years	
Life Cycle Power During Warranty Period ^[3]		14MWh@80%EOL	22MWh@80%EOL
Certification		IEC62619,IEC61000,CE,UN38.3	UL1973, IEC62619, IEC61000, 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.

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 forvarious 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.

