XTRA POWER LiFePO4

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℃ to 55℃.

◆ **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
Main Parameter		
Battery Chemistry		LiFePO4
Capacity (Ah)		100
Scalability(Max. in 1 battery group)		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)[1]		4.61
Charg/Discharging Current(A)	Recommend[2]	50
	Max[2]	100
	Peak (2 minuters,25℃)	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/Discharge: -20~55
Storage Temperature		0℃ ~ 35℃
Humidity		5%~95%
Cycle Life		25±2℃ ,0.5C/0.5C,70%EOL≥6000
Installation Location		19-inch standard cabinet, cabinet depth ≥600mm / with rack
Communication Port		CAN2.0, RS485
Warranty		10 years
Life Cycle Power During Warranty Period[3]		16MWh@70%EOL
Certification		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 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.