

# **LIFEPO4 LITHIUM BATTERY**

S12-150LFP



S12-150LFP

S-Series I FP

Series





See Warranty Terms

Series	5-Series LFP	Wallality	See warranty	renns
Volts	12	Design	Grp 31	
Terminal Type		M8		
Included Hardware		M8 stainless bolts & washers		
Charge				
Charge Voltage Range			14.0 - 14.6V	
Recommended End of Discharge Voltage			12.0 V	
End of Discharge Protection Voltage			10.0 V	
Recommended Charge Voltage		14.4 V		
Recommended Charge Current				
-20~0°C (-4-50°F)		0.1C	14A	
0~10°C (32-50°F)		0.2C	27A	
10~35°C (50-95°F)			0.5C	68A
35~50°C (95-122°F)		0.2C	27A	

Warranty

### **Charge Mode:**

- Charge at recommend voltage & current by temperature until charge current drops to ≤ 0.05C (CC,CV)

  • DO NOT USE TEMPERATURE COMPENSATION
- No BTS (Battery Temperature Sensor)

Max Continuous Charge Current	150 A	
Max Continuous Discharge Current	150 A	
Surge Current Limit	900 A (300ms)	
Charge Temperature Range	-20°C~55°C (-4~131°F)	
Discharge Temperature Range	-20°~60°C (-4~140°F)	
Storage Temperature Range	-5°~45°C (23~113°F)	

Capacity		
Nominal Capacity	150 AH	
Total Energy	1.92 kWh	
Nominal Voltage	12.8 V	

### Safety

- Cylindrical LiFePO4 cells (UL1642)
- IEC62133 (cell), IEC62619(cell), UN38.3 (cell/pack)
- ROHS (cell), CE system certification, IP65 Rating

### Design

- Standard-size (BCI) ABS container for easy VRLA replacement
- Fast charge/discharge performance
- Display & integrated controls
- Visual state-of-charge (SOC)
- External fuse access
- Internal heating for -20°C (-4°F) to 0°C (32°F) charging \*
- Bluetooth Connectivity & dedicated IOS & Android App
- Maintenance-free operation
- \* Note: When connected in series, internal heating may increase charge imbalance requiring external rebalancing.

Refer to R-Series & S-Series LFP Battery Operating Manual

### **Battery Management System (BMS)**

- Integrated hardware BMS inside
- Independent charge & discharge protection
- **Balance Protection**
- Short-Circuit Protection, Over-Voltage Protection, Low-Voltage Protection, Over-Current Protection, Low-Temperature Protection, Over-Temperature Protection

### **12V LFP Profile**

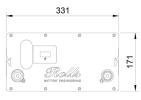
Specifications				
Sertified System	Weight	15.7 kg	34.6 lbs	
	Length	331 mm	13.03"	
	Width	171 mm	6.73"	
● SAI GLOBAL	Height	215 mm	8.46"	
ISO 9001 Quality	Height Incl. Term.	229 mm	9.02"	

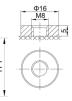
Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process & battery components.

Container	ABS
Cover	ABS
Handles	Rope / Plastic Handle
Internal BMS Model	4S150ATX-V2
Expected Cycle Life	>6000 @ 80% DOD, >3000 @ 100% DOD
Series Connection	4 UNITS MAX (48V)
Parallel Connection	4 UNITS MAX (48V) or 6 UNITS MAX (12V)
Connectivity	Up to 4S4P (in 48V configuration) or 1S6P (in 12V configuration)

## **Detailed Illustration**









ISO9001









