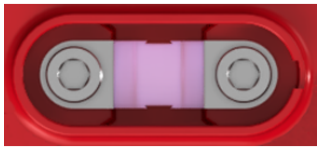
LIFEPO4 LITHIUM BATTERY

S48-55LFP



Series	S-Series LFP	Warranty	See Warranty Terms
Volts	48	Design	Grp 49
Terminal Type		M8	
Included Hardware		M8 stainless bolts & washers	

Charge	
Charge Voltage Range	56.0 - 58.4V
Recommended End of Discharge Voltage	48.0 V
End of Discharge Protection Voltage	40.0 V
Recommended Charge Voltage	57.6 V
Recommended Charge Current	

-20~0°C (-4-50°F)	0.1C	5A
0~10°C (32-50°F)	0.2C	11A
10~35°C (50-95°F)	0.5C	27.5A
35~50°C (95-122°F)	0.2C	11A

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	55 A
Max Continuous Discharge Current	55 A
Surge Current Limit	300 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	55 AH
Total Energy	2.82 kWh
Nominal Voltage	51.2 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

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

48V LFP Profile

Specifications		
Weight	21 kg	46.3 lbs
Length	502 mm	19.76"
Width	185 mm	7.28"
Height	236 mm	9.29"
Height Incl. Term.	236 mm	9.29"

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	16S80ATX-V2
Expected Cycle Life	>6000 @ 80% DOD, >3000 @ 100% DOD
Series Connection	1 UNITS MAX
Parallel Connection	6 UNITS MAX
Connectivity	1S6P

ISO9001 ISO14001 OHSAS18001

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