



Series	S-SERIES LFP	Warranty	See Warranty Terms
Volts	48	Design	Grp 49
Terminal Type		M8	
Included Hardware		M8 stainless bolts & washers	
<b>Charge   Discharge</b>			
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  $\leq 0.05C$  (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)
<b>Capacity</b>	
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

