



Series	S-Series LFP	Warranty	See Warranty Terms
Volts	48	BCI	G49
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 $\leq 0.05C$ (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°C~60°C (-4~140°F)
Storage Temperature Range	-5°C~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	50.2 cm	19.76"
Width	18.5 cm	7.28"
Height Inc. Term.	23.6 cm	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

