



Series	S-Series LFP	Warranty	See Warranty Terms
Volts	12	Design	Grp 24
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 (-4-32°F)	0.1C	10A
0~10°C (32-50°F)	0.2C	20A
10~35°C (50-95°F)	0.5C	50A
35~50°C (95-122°F)	0.2C	20A

### 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	100 A
Max Continuous Discharge Current	100 A
Surge Current Limit	800 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°~45°C (23~113°F)

### Capacity

Nominal Capacity	100 AH
Total Energy	1.28 kWh
Nominal Voltage	12.8 V

### Safety

- Cylindrical LiFePO4 cells [ITR26-70/40E 4Ah, 26700] (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		
Weight	11.8 kg	26.0 lbs
Length	266 mm	10.47"
Width	177 mm	6.97"
Height	228 mm	8.98"
Height Incl. Term.	234 mm	9.25"

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	Integrated Top Mount
Internal BMS Model	4S100ATX-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



