



Series	S-SERIES LFP	Warranty	See Warranty Terms
Volts	12	Design	Grp 31
Terminal Type		M8	
Included Hardware		M8 stainless bolts & washers	
<b>Charge   Discharge</b>			
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	

**Charge Mode:**

- Charge at recommend voltage & current by temperature until charge current drops to  $\leq 0.05\text{C}$  (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)

<b>Capacity</b>	
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)**

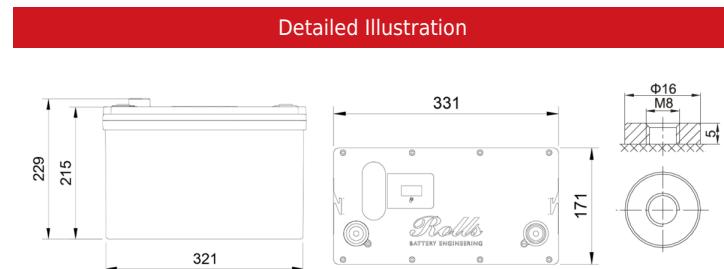
- Integrated hardware BMS inside
- Independent charge & discharge protection
- Balance Protection
- Short-Circuit Protection, Over-Voltage Protection, Low-Voltage Protection, Over-Current Protection, Low-Temperature Protection, Over-Temperature Protection

[12V LFP Profile](#)

Specifications		
Weight	15.7 kg	34.6 lbs
Length	331 mm	13.03"
Width	171 mm	6.73"
Height	215 mm	8.46"
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)



ISO9001

ISO14001

OHSAS18001

