



Series	S-SERIES LFP	Warranty	See Warranty Terms
Volts	24	Design	Grp 24
Terminal Type	M8		
Included Hardware	M8 stainless bolts & washers		

Charge | Discharge

Charge Voltage Range	28.0 - 29.2V
Recommended End of Discharge Voltage	24.0 V
End of Discharge Protection Voltage	20.0 V
Recommended Charge Voltage	28.8 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	50 A
Max Continuous Discharge Current	50 A
Surge Current Limit	500 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	50 AH
Total Energy	1.28 kWh
Nominal Voltage	25.6 V

Safety

- Cylindrical LiFePO4 cells [ITR26-70/40E 4.6Ah, 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.

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

* Note: When connected in series, internal heating may increase charge imbalance requiring external rebalancing.

Refer to [R-Series & S-Series LFP Battery Operating Manual](#)

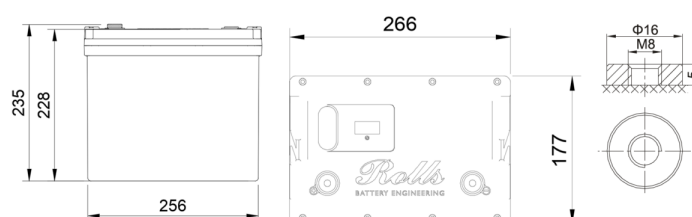
24V LFP Profile

Specifications		
Weight	10.5 kg	23.1 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	8S50ATX-V2
Expected Cycle Life	>6000 @ 80% DOD, >3000 @ 100% DOD
Series Connection	2 UNITS MAX (48V)
Parallel Connection	4 UNITS MAX (48V) or 6 UNITS MAX (24V)
Connectivity	Up to 254P (in 48V configuration) or 156P (in 24V configuration)

Detailed Illustration





Rev.#3 | October 2024