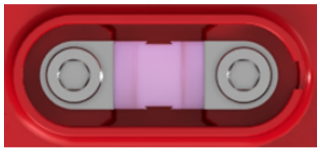
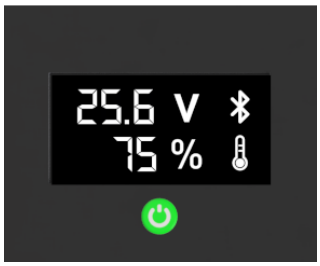
LIFEPO4 LITHIUM BATTERY

S24-50LFP









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 ≤ 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

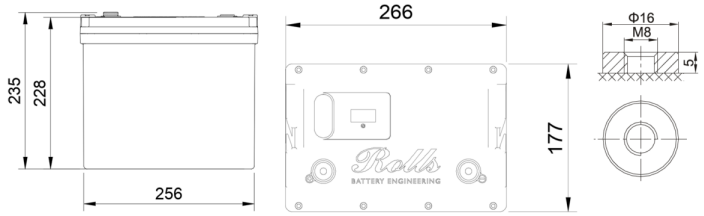
Specifications

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.	235 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 2S4P (in 48V configuration) or 1S6P (in 24V configuration)

Detailed Illustration



ISO9001 ISO14001 OHSAS18001

Rev.#3 | October 2024