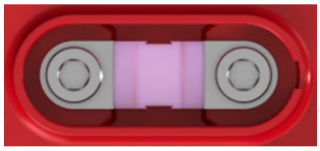
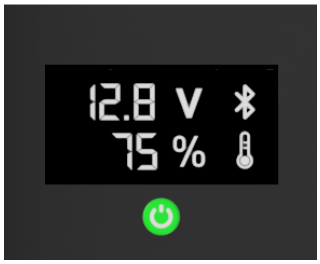
LIFEPO4 LITHIUM BATTERY

S12-300LFP





Series	S-Series LFP	Warranty	See Warranty Terms
Volts	12	Design	8D
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 (-4-50°F)	0.1C	30A
0~10°C (32-50°F)	0.2C	60A
10~35°C (50-95°F)	0.5C	150A
35~50°C (95-122°F)	0.2C	60A

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	200 A
Max Continuous Discharge Current	200 A
Surge Current Limit	1100 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	300 AH
Total Energy	3.84 kWh
Nominal Voltage	12.8 V

Safety

- Cylindrical LiFePO4 cells [ITR26-70/46E 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.

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

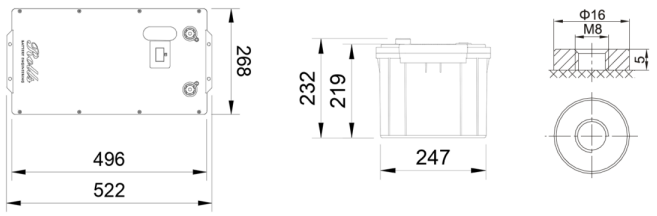
Specifications

Weight	30.5 kg	67.2 lbs
Length	522 mm	20.55"
Width	268 mm	10.55"
Height	219 mm	8.62"
Height Incl. Term.	232 mm	9.13"

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	4S200ATX-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



ISO9001 ISO14001 OHSAS18001

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