

R1:**12V LFP Battery** – For camping, boating, solar backup and more

The R1 is a LiFePO₄ (LFP) battery with various application scenarios to substitute lead-acid batteries, such as RV, solar lights, golf carts, marine, security cameras, households etc. Unlike AGM or lead-acid batteries, the LFP batteries has longer life, lighter weight, higher performance. This product supports series and parallel use, built-in with Bluetooth and smart BMS.

**Product Highlights:**

- Various use cases to substitute lead-acid batteries
- 5000+ cycles, 10-year lifetime
- Automatic cell balancing: powerful BMS monitors and optimizes each cell within the battery during normal operation, protecting it from over-charge, over-discharge, overheating and short-circuiting
- Built-in Bluetooth, easy to access real-time battery status
- Support series and parallel use, up to four batteries to expand capacity
- Maintenance-free, easy to install and wake-up button for rapid reset
- Integrated fire-proof component, highest level of safety
- High durability and reliability

ELECTRICAL

Nominal Voltage	12.8V
Nominal Capacity	125Ah
Battery Technology	LiFePO ₄
Rated Energy	1600Wh
BMS Function	Over-charge, over-discharge, over-current and temperature protection
Recommended Charge Voltage	14.4 - 14.6V
Discharge Cut-off Voltage	10.8V
Recommended Charge Current	≤50A
Max. Continuous Charge/Discharge Current @ 25°C	100A
Peak Discharge Current	300A @ 5S
Voltage Configurations	12V
Maximum Configuration	Increase capacity in parallel
Maximum Time Between Charges	3 months
Monitoring	Bluetooth
Button	Power on / off and rapid awakening

MECHANICAL

Dimension (W*H*D)	307*213*169 mm
Weight	Approx. 13.1 Kg
Terminal	M8
Casing material	ABS

ENVIRONMENT

Working Temperature Range	Charge: 0 ~ 55°C Discharge: -20 ~ 60°C
Humidity Range	< 95% RH
Storage Temperature	15°C ~ 35°C
IP Protection Level	IP 65