



48V 50AH SMART LITHIUM IRON PHOSPHATE BATTERY



RENOGY 48V 50AH SMART LITHIUM IRON PHOSPHATE BATTERY

The Renogy Smart Lithium Iron Phosphate Battery is a perfect option for off-grid energy storage systems. The 48V nominal voltage ensures low heat generation and high efficiency during high power transmission. The modular design scales easily to meet a range of configurations - making it simple to tailor your energy requirements to specific projects. Optimized with a proprietary manufacturing processes and cell architecture, the battery meets the highest safety standards and has an exceptional lifecycle. The state-of-the-art battery management system (BMS) enables comprehensive protection features and real-time monitoring on the battery. Equipped with the intelligent self-heating function, the battery is ready to be charged or operate in low temperature conditions.

KEY FEATURES

Modular Design

Easily connect multiple batteries in parallel with the auto-balancing function to meet the power and energy requirements of different system setups.

Reliable System

Provides comprehensive protection features and real-time monitoring on batteries using the battery management system (BMS) with high-performance dual-processors.

Uncompromised Quality

Optimized with a proprietary manufacturing process and cell architecture, this battery features an exceptional lifespan of more than 4500 cycles, 50A maximum discharge current, and a wide range of operating temperature.

Communication Port

Enables communication among connected batteries, external devices, and host computers through multiple communication ports.

Self Heating

Keeps the battery charged or operating in cold environments with the help of the intelligent self-heating function.

Cell Type	LiFePO4
Rated Capacity (0.2C)	50Ah
Nominal Voltage	48V
Voltage Range	42V~55.5V
Rated Charge/Discharge Current	25A
Maximum Charge/Discharge Current	50A
Charge Voltage	54V
Charge Temperature Range	32°F~131°F / 0°C~55°C
Discharge Temperature Range	-4°F~140°F / -20°C~60°C
Storage Temperature Range	-13°F~149°F / -25°C~65°C
Cycle Life (0.2C, 25°)	4500 Cycles (80% DOD)
Protection Rate	IP55
Connection Method	Parallel
Communication Port	RJ45 (RS485 Protocol, CAN protocol)
Dimension	22.7 x 8.46 x 7.87 inch / 576 x 215 x 200 mm
Weight	60.8 lb. / 27.6 kg

