



# SMART LITHIUM IRON PHOSPHATE CORE

25.6V | 200Ah



## RENOGY CORE LT (LOW TEMPERATURE) SERIES DEEP CYCLE LITHIUM IRON PHOSPHATE BATTERY

The Renogy Core LT (Low Temperature) Series 25.6V 200Ah Deep Cycle Lithium Iron Phosphate Battery is designed for the drop-in replacement of deep-cycle lead-acid batteries with its standard Battery Council International (BCI) group size.

Weighing only half of the lead-acid counterparts, the battery can be safely discharged to 100% Depth of Discharge (DOD), delivering twice the energy. Manufactured with automotive grade battery cells, the battery features the highest safety standards and an extended 5000+ cycle life. In addition, the reliable Battery Management System (BMS) provides comprehensive protection to the battery.

### KEY FEATURE

- **Unparalleled Performance**  
Features a greater energy density, a deeper discharge capability, a higher round-trip efficiency, and a faster charging speed in a smaller size over counterparts in the market.
- **Uncompromising Quality**  
Ensures an exceptional lifespan with more than 5000 cycles (80% DOD), a continuous charge current of 200A and a continuous discharge current of 200A, and a wide range of operating temperatures with the automotive grade battery cells.
- **Reliable Protection Mechanisms**  
Designed with a sturdy internal structure for RV use, and includes multiple levels of protection such as low temperature cut-off and precise balancing through the smart battery management system.
- **Intelligent High Power Self-Heating Function**  
Equipped with a 200W self-heating function to ensure battery charging at low temperature.
- **Easy to Expand**  
Upgrades to lithium batteries seamlessly with the standard BCI group sizes; up to 16 batteries in 2 series and 4 parallels system connection delivering a maximum of 48V (51.2V) 800Ah with 40.96 kWh.

## TECHNICAL SPECIFICATIONS

### General

Model	RBT24200LFPSH
Battery Cell Type	Lithium Iron Phosphate / Prismatic Cell
Rated Capacity (0.5C, 25°C)	200 Ah
Nominal Voltage	25.6 V
Voltage Range	20.0 V to 29.2 V
Cycle Life (0.5C/1C, 25°C)	5000 Cycles (80%EOL, 80%DOD)
Dimension	20.55 x 10.55 x 8.62 in / 522 x 268 x 219 mm
Weight	88.6 lbs. / 40.2 kg
Connection Method	Series & Parallel (2S4P)
Terminal Bolt Size	M8 x 1.25 x 15 mm
Recommended Terminal Torque	88.5 inch-lbs to 106.2 inch-lbs / 10 N·m to 12 N·m
Protection Rating	IP65
Certification	MSDS, UN38.3, FCC, CE, PSE, and UKCA

### Operation Parameters

Charge Voltage	29.0 V
Maximum Continuous Charge Current	200 A
Maximum Continuous Discharge Current	200 A
Peak Discharge Current	390A@5s
Charge Temperature Range	-4°F to 131°F (-20°C to 55°C)
Discharge Temperature Range	-4°F to 140°F (-20°C to 60°C)
Storage Temperature Range	-13°F to 149°F (-25°C to 65°C)
Operation Relative Humidity	10% to 95%