RENOGY

CORE Series Deep Cycle Lithium Iron Phosphate Battery

12.8V | 50Ah







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

Renogy 12V 50Ah battery is an advanced energy storage solution designed for exceptional performance and durability. Whether you need a dependable power source for outdoor adventures or a backup battery for critical systems, the 12V 50Ah battery is the perfect choice for your energy storage needs.

KEY FEATURES

- **4S4P CONFIGURATION**

  12V 50Ah Battery enhanced power with 4S4P configuration: 10.24kWh Expansion. With a total expansion of 10.24kWh, this battery is ready to power your applications with unprecedented efficiency and reliability.

- **Ultimate Portability and Durability**

  12V 50Ah Core Battery is designed for portability and durability, IP65 water-resistant, allows for easy transportation and deployment.Whether you're looking for This battery packs a punch, delivering ample power to keep your devices charged and ready to go. With its high capacity and reliable performance, you a backup power source for your RV or a dependable energy partner for outdoor adventures, the 12V 50Ah Core Battery is your can count on the 12V 50Ah Core Battery to power your adventures, no matter where they take you.

- **3500 Life Cycles（80% EOL）**

  Renogy 12V 50Ah battery boasts a remarkable lifespan of 3500 charge-discharge cycles at 80% depth of discharge (EOL). This ensures long-lasting battery life and reliable performance.

- **Advanced BMS Upgrade for Enhanced Safety**

  Renogy lithium-ion battery is equipped with an advanced Battery Management System (BMS) upgrade, enhancing both safety and efficiency, MSDS, UN38.3, FCC, CE Certificates.

- **Compact Energy Storage with Premium Performance**

  Renogy battery incorporates square core battery cells, combined with premium Class A battery cells, to achieve a condensed energy storage solution.
  he square core battery cells ensure maximum energy density, while the premium Class A cells provide long-lasting durability and consistent power output.

TECHNICAL SPECIFICATIONS

Model	RBT1250LFP
Product Description	RENOGY 12V 50Ah Core Series Deep Cycle Lithium Iron Phosphate Battery
Battery Type	Core Series Deep Cycle Lithium Iron Phosphate Battery
Rated Capacity	50Ah
Nominal Voltage	12.8V
Voltage Range	10-14.8V
Energy	640Wh
Cycle Life(0.5C, 25℃)	3500 Cycles（25℃，0.5C Charge/0.5C Discharge，80%DOD，80%EOL）
Connection Method	Series （Up to 4）& Parallel (Up to 8)
Automatically Self-heating Function	No
Dimensions	197 X 166 X 171mm
Weight	5.35Kg
Protection Rate	IP65
Housing Material	ABS+PC
Charge Voltage	14.4
Maximum Continuous Charge Current	50A
Charge Cut-off Voltage	14.6V
Maximum Continuous Discharging Current	50A
Discharge Cut-off Voltage	10V
Standard Operation Temperature	73.4 ± 9°F / 23 ± 5°C
Storage Temperature	-25°C-65°C/ -13°F~149°F
Charge Temperature	0°C-55°C/32°F~131°F
Discharge Temperature	-20°C-60°C/ -4°F~140°F
Built-in Bluetooth	No
Communication Port	No
M8 Bolts	M8 ×2
Activation Switch	No
Material and workmanship warranty	5-year
Certifications	MSDS、UN38.3、FCC、CE, UKCA, PSE