

Description

Renogy Pro Series 12V LiFePO₄ Batteries deliver consistent power for your remote adventures. Their double-layer safety system includes over 60 BMS protections and Active Backup Protection for ultimate safety.

Built with self-heating pads, fire-retardant materials, and an IP67-rated waterproof casing, they withstand harsh conditions and are ideal for marine use. Pro series batteries also offer Bluetooth connectivity for remote monitoring and OTA updates for continuous improvements.

Key Features

■ All-Round Protection

Offers over 60 BMS protection to tackle different risk levels. Self-control fuses (Active Backup Protection) are also integrated as the second line of defense to break the circuit and protect the battery from ongoing overheating in case of hardware failures.

- High/low voltage protection
- Charge/discharge overcurrent protection
- Short circuit protection
- High/low temperature protection
- Cold charging protection (low-temp cutoff)

■ Self-Heating

Includes heating pads to recharge batteries safely, even when the temperature drops below freezing.

■ Smart Monitoring and Update

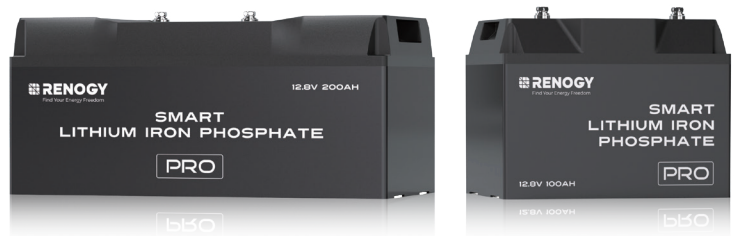
Connect via Bluetooth to the Renogy App for real-time monitoring. You can also receive performance updates to help keep the battery running at its best.

■ Fire-Retardant Casing

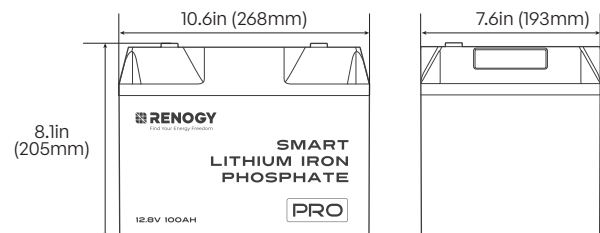
A sturdy UL94 V-0 fire-retardant casing helps prevent vertical burning from spreading within 10s, giving maximum protection for your battery and off-grid power system.

■ Wobble-Free Design

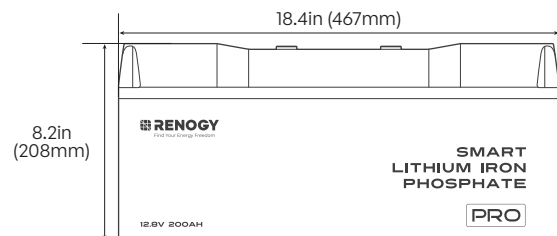
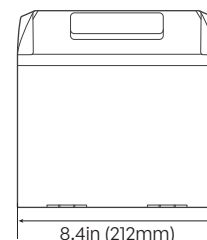
Features a rugged structure inside to support battery cells and protect them from vibration. Additionally, secure the battery with integrated mounting holes and Battery Fix Brackets for a peace of mind installation.



Product Dimensions



Pro 12V 100Ah LiFePO₄ Battery



Pro 12V 200Ah LiFePO₄ Battery

Technical Specifications

Electrical Specifications

Model	RBT12100LFP-BT	RBT12200LFP-BT
Battery Cell Type	Prismatic	Prismatic
Cell Chemistry	LiFePO4	LiFePO4
Rated Voltage	12.8V	12.8V
Rated Capacity (0.5C, 25°C)	100Ah	200Ah
Voltage Range	10-14.8V	10-14.8V
Cycle Life (0.5C, 25°C)	5,000 Cycles (80% DOD, 80% EOL)	5,000 Cycles (80% DOD, 80% EOL)
Maximum Continuous Charge Current	100A	200A
Maximum Continuous Discharge Current	100A	200A
Peak Discharge Current	245A@30s	270A@30s
Self Discharge	<3%	<3%
Connection Method	8P	8P

Temperature Specifications

Charge Temperature	-4°F to 131°F / -20°C to 55°C	-4°F to 131°F / -20°C to 55°C
Discharge Temperature	-4°F to 140°F / -20°C to 60°C	-4°F to 140°F / -20°C to 60°C
Storage Temperature	-13°F to 149°F / -25°C to 65°C	-13°F to 149°F / -25°C to 65°C
Operation Relative Humidity	10% to 95%	10% to 95%

Mechanical Specifications

Weight	26.90 lbs / 12.2kg	50.71 lbs / 23.0kg
Dimensions (LxWxH)	10.6 x 7.6 x 8.1in / 268 x 193 x 205mm	18.4 x 8.4 x 8.2in / 467 x 212 x 208mm
Communication Protocol	Bluetooth	Bluetooth
Terminal Bolt Size	M8 Terminal	M8 Terminal
Recommended Terminal Torque	70.8inch-lbs / 8N·m	70.8inch-lbs / 8N·m
Housing Material	ABS+PC	ABS+PC
Flame Retardancy	UL94 V-0	UL94 V-0
Protection Rating	IP67	IP67
Self-Heating	Yes	Yes
Heating Temperature	32°F / 0°C On, 50°F / 10°C Off	32°F / 0°C On, 50°F / 10°C Off
Self-Heating Power	55W	85W
Shipping Class	UN3480, Class 9	UN3480, Class 9
Certifications	CE, R10, FCC, IC, TELEC, UKCA, RCM, UN38.3, CB	CE, R10, FCC, IC, TELEC, UKCA, RCM, UN38.3, CB
Warranty	7-Year	7-Year

Package Contents

Long Terminal Bolts	Yes (x2)	Yes (x2)
Terminal Bolts	Yes (x2)	Yes (x2)
User Manual	Yes (x1)	Yes (x1)

Renogy and any of its affiliates have reserved the right to make any modifications to the information on this data sheet without notice. It is our goal to supply our customers with the most recent information regarding our products.

These data sheets can be found in the downloads section of our website, www.renogy.com.