RENOGY
TRUSTED ENERGY SOLUTIONS

Pro Series 12V 135/200/500Ah Underseat Lithium Iron Phosphate Battery

RBT12135LFP-SHBT/RBT12200LFP-SHBT/RBT12500LFP-SHBT

Description

Maximize motorhome space with Renogy Pro Series Underseat LiFePO4 Batteries. Designed to fit neatly under the driver or passenger seat, these batteries provide reliable energy storage without taking up valuable living or cargo space.

Available in three capacity options from 135Ah to 500Ah, they support everything from weekend trips to extended off-grid travel.

Key Features

- **Maximum Space Efficiency**

Engineered for low-profile installation, these batteries stand under 200mm tall to ensure a perfect fit beneath motorhome seats.

- **Best-in-Class Battery Protection**

Offers over 60 types of protection to deploy targeted defense based on risk levels, helping prevent unnecessary shutdowns and maintain smooth operation.

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

- **Monitoring Made Easy**

Stay connected to batteries via Bluetooth connectivity to monitor power consumption, runtime, and more data in real time, even when away from the battery.

- **Ready for Cold Weather**

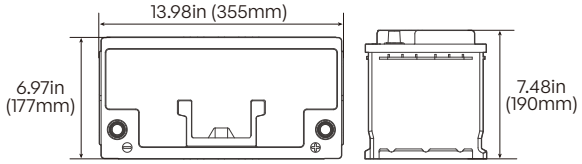
Keep battery cells above freezing with self-heating pads, allowing for charging down to -4°F (-20°C).

Recommended Accessories

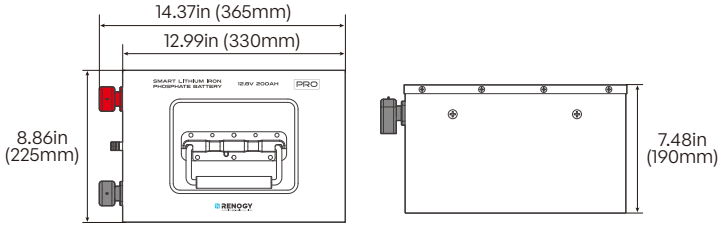
Renogy ONE Core
An all-in-one solution for local/remote energy monitoring and analysis. This smart display panel also includes a leveling system to keep the RV stable, allowing doors to open/close properly.

Renogy App
Monitor real-time power statistics and receive alerts on your phone or tablet.

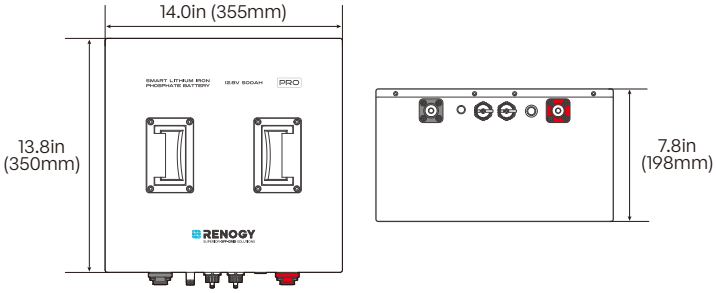
Product Dimensions



Pro 12V 135Ah Underseat LiFePO4 Battery



Pro 12V 200Ah Underseat LiFePO4 Battery



Pro 12V 500Ah Underseat LiFePO4 Battery

Technical Specifications

Electrical Specifications

Model	RBT12135LFP-SHBT	RBT12200LFP-SHBT	RBT12500LFP-SHBT
Battery Cell Type	Prismatic	Prismatic	Prismatic
Cell Chemistry	LiFePO4	LiFePO4	LiFePO4
Rated Voltage	12.8V	12.8V	12.8V
Rated Capacity (0.5C, 25°C)	135Ah	200Ah	500Ah
Voltage Range	10-14.8V	10-14.8V	10-14.8V
Cycle Life (0.5C, 25°C)	4,000 Cycles (80% DOD, 80% EOL)	4,000 Cycles (80% DOD, 80% EOL)	3,500 Cycles (80% DOD, 80% EOL)
Maximum Continuous Charge Current	135A	200A	200A
Maximum Continuous Discharge Current	135A	200A	250A
Peak Discharge Current	350A@3s	380A@10s	300A@10s
Self Discharge	≤3%/month	≤3%/month	≤3%/month
Connection Method	4S/8P/4S4P	4S/8P/4S4P	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	-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	-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	-4°F to 140°F / -20°C to 60°C
Operation Relative Humidity	10% to 95%	10% to 95%	10% to 95%

Mechanical Specifications

Weight	31.97 lbs / 14.5kg	50.71 lbs / 23.0kg	110.23 lbs / 53kg
Dimensions (LxWxH)	13.98 x 6.97 x 7.48in / 355 x 177 x 190mm	14.37 x 8.86 x 7.48in / 365 x 225 x 190mm	14.0 x 13.8 x 7.8in / 355 x 350 x 198mm
Communication Protocol	Bluetooth	Bluetooth	CAN/Bluetooth
Terminal Bolt Size	Copper Pillar Terminal (18mm)	M8 Terminal	M8 Terminal
Recommended Terminal Torque	/	88.5 inch·lbs to 106.2 inch·lbs / 10 N·m to 12 N·m	70.8 inch·lbs / 8 N·m
Housing Material	ABS	SPCC	SPCC
Protection Rating	IP65	IP65	IP65
Self-Heating	Yes	Yes	Yes
Heating Temperature	32°F / 0°C On, 50°F / 10°C Off	32°F / 0°C On, 50°F / 10°C Off	32°F / 0°C On, 50°F / 10°C Off
Self-Heating Power	100W	100W	175W
Shipping Class	UN3480, Class 9	UN3480, Class 9	UN3480, Class 9
Certifications	CE, R10, UN38.3	CE, R10, UN38.3	CE, R10, UKCA, RCM, UN38.3
Warranty	7-Year	7-Year	7-Year

Package Contents

User Manual	Yes (x1)	Yes (x1)	Yes (x1)
Long Terminal Bolts	No	Yes (x2)	Yes (x2)
Insulation Sleeves	No	Yes (x2)	Yes (x2)
Network Cable	No	No	Yes (x1)
Terminal Resistors	No	No	Yes (x1)

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