

NEW 2026

Renogy Solid-State Lithium Iron Phosphate Battery

The World's **1st** Smart and Portable
Solid State Battery for Mobile Energy Storage

Certified by Frost & Sullivan



Technology at a Glance

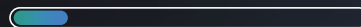
All three batteries adopt solid-state cell technology — a market-leading innovation designed for extreme reliability and performance.

EV-Grade Solid-State LiFePO₄ Cell

Featuring 70% less flammable electrolyte than traditional LiFePO₄ and a cycle life of over 6000 cycles for superior safety and longevity.



10wt% Electrolyte Content



Wide Operating Temperature Range

-Heating film enables cell self-heating at from 0°C to -20°C

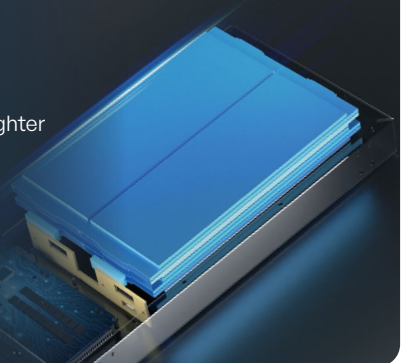
-Semi-solid separator withstands 300°C, ensuring thermal stability



High Energy Density & Power Output

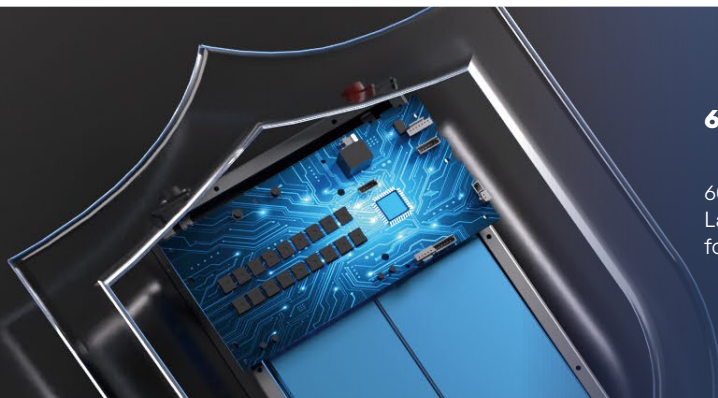
-Up to 20% smaller and 23% lighter than same-capacity batteries

-Supports up to 1 minute of operation under heavy loads of 165A (120Ah) / 250A (240Ah)



60+ BMS Protection

60+ Advanced BMS Protections Including High-Temp Layered Safeguards and Dual-Stage Active Fuses for Enhanced Battery Life and Safety



Durable & Safe Enclosure Design

-UL94 V-0 flame-retardant

-IP67 waterproof & dustproof



Smart Monitoring & Remote OTA

-Bluetooth stable bidirectional transmission

-App real-time monitoring & remote OTA

-Supports high-speed CAN bus communication

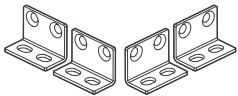


12.8V 104Ah Super-Slim Solid-State Lithium Battery w/ Self-Heating

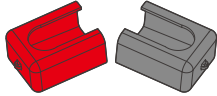
- Ultra-Thin
at Just 2.4in/60.96 mm
- Self-Heating Upgrade
- Renogy One Core
& App Compatible
- 8-Y Warranty



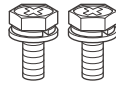
What's in the Box ?



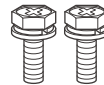
Battery Fix Brackets x 2



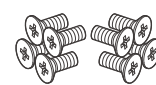
Insulation Sleeves x 2



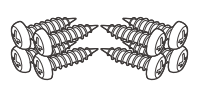
Terminal Bolts x 2



Long Terminal Bolts x 2



Countersunk Head
Screws x 8



Self-Tapping
Screws x 8

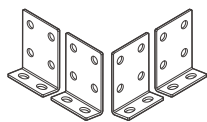
Product Parameters

Model No.	RBT12104LFP-SSBH
Battery Cell Type	Lithium Iron Phosphate
Rated Capacity (0.5,25°C)	104AH
Nominal Voltage	12.8v
Voltage Range	10.8V to 14.6V
Maximum Continuous Charge current	100A
Maximum Continuous Discharge Current	200A
Peak Discharge Current	290A@30S
Charge Temperature Range	14°F to 131°F / -10°C to 55°C (14°F to 32°F / -10°C to 0°C, 0.1C)
Discharge Temperature Range	-20°C to 60°C / -4°F to 140°F
Storage Temperature Range	-20°C to 60°C / -4°F to 140°F
Operation Relative Humidity	5% to 95%
Self heating	*Works form -20°C (-4°F) to 0°C (32°F)
Cycle Life	6000 Cycles (80% DOD)
Communication	Bluetooth and CAN
Dimensions	579 × 290 × 61 mm / 22.80 × 11.42 × 2.40 in
Weight	13.4 kg / 29.5 lbs
Terminal Bolt Size	Terminal Bolt: M8 x 1.25 x 12 mm Long Terminal Bolt: M8 x 1.25 x 16 mm
Protection Rating	IP67 Waterproof & Dustproof
Certification	MSDS, UN38.3, FOC, CE, PSE, ROHS, RCM, IC, and UKCA
Warranty	8Y

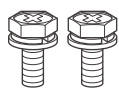
Pro 120Ah Solid-State Lithium Iron Phosphate Battery



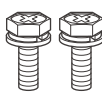
What's in the Box ?



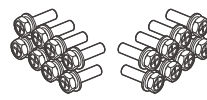
Battery Fix Brackets x 4



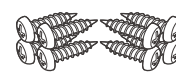
Terminal Bolts x 2



Long Terminal Bolts x 2



Countersunk Head Screws x 8



Self-Tapping Screws x 8

Product Parameters

Model No.	RBT12120LFP-SBH
Battery Cell Type	Lithium Iron Phosphate
Rated Capacity (0.5,25°C)	120AH
Nominal Voltage	12.8v
Voltage Range	10.8V to 14.6V
Maximum Continuous Charge current	120A
Maximum Continuous Discharge Current	150A
Peak Discharge Current	350A@30s
Charge Temperature Range	-20°C to 55°C / -4°F to 131°F
Discharge Temperature Range	-20°C to 60°C / -4°F to 140°F
Storage Temperature Range	-20°C to 60°C / -4°F to 140°F
Operation Relative Humidity	5% to 95%
Self heating	*Works form -20°C (-4°F) to 0°C (32°F)
Cycle Life	6000(80% DOD)
Communication	Bluetooth and CAN
Dimensions	325 × 189 × 188 mm / 12.80 × 7.44 × 7.40 in
Weight	13.4 kg / 29.5 lbs
Terminal Bolt Size	Terminal Bolt: M8 x 1.25 x 12 mm Long Terminal Bolt: M8 x 1.25 x 16 mm
Protection Rating	IP67 Waterproof & Dustproof
Certification	MSDS,UN38.3,FOC,CE,PSE,ROHS,RCM, IC, and UKCA
Warranty	7Y

Pro 240Ah Solid-State Lithium Iron Phosphate Battery

 Suitable for Underseat Installation

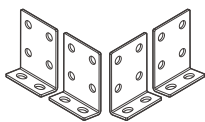
 Higher Output & Longer Cycle Life

 Renogy One Core & App Compatible

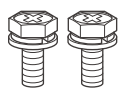
 7-Y Warranty



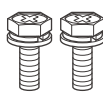
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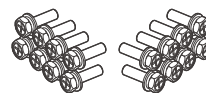
Battery Fix Brackets x 4



Terminal Bolts x 2



Long Terminal Bolts x 2



Countersunk Head Screws x 8

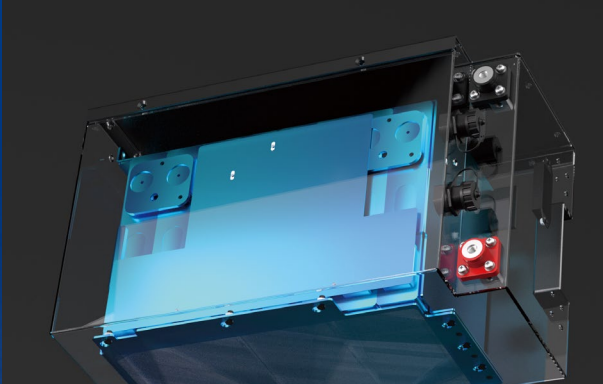


Self-Tapping Screws x 8

Product Parameters

Model No.	RBT12240LFP-SBH
Battery Cell Type	Lithium Iron Phosphate
Rated Capacity (0.5,25°C)	240AH
Nominal Voltage	12.8v
Voltage Range	10.8V to 14.6V
Maximum Continuous Charge current	240A
Maximum Continuous Discharge Current	240A
Peak Discharge Current	450A@30s
Charge Temperature Range	-20°C to 55°C / -4°F to 131°F
Discharge Temperature Range	-20°C to 60°C / -4°F to 140°F
Storage Temperature Range	-20°C to 60°C / -4°F to 140°F
Operation Relative Humidity	5% to 95%
Self heating	*Works form -20°C (-4°F) to 0°C (32°F)
Cycle Life	6000(80% DOD)
Communication	Bluetooth and CAN
Dimensions	405 × 244 × 188 mm / 15.94 × 9.61 × 7.40 in
Weight	24.35kg / 53.70 lbs
Terminal Bolt Size	Terminal Bolt: M8 x1.25 x 12 mm Long Terminal Bolt: M8 x1.25 x 16 mm
Protection Rating	IP67 Waterproof & Dustproof
Certification	MSDS,UN38.3,FOC,CE,PSE,ROHS,RCM,IC, and UKCA
Warranty	7Y

ROCK-SOLID LITHIUM POWER



What is Solid-State Battery?

Solid-state LFP batteries replace flammable liquid electrolytes with a non-flammable solid electrolyte and a stable lithium iron phosphate cathode. This boosts thermal stability, reduces fire and leakage risks, increases energy density, and slows degradation—delivering thousands of cycles, longer life, and safer, more efficient energy storage.



Why Renogy Brings Solid-State Technology to RV and Mobile Living ?

Renogy has identified a growing demand for safer, more compact, and longer-lasting power in confined spaces, extreme climates, and high-power applications. By replacing flammable liquid electrolytes with a solid-state alternative, we deliver superior safety, higher energy density, and extended cycle life—redefining the future of off-grid energy for RV and mobile living



Where to Buy

- Renogy Official Online Store
- Renogy Certified Dealers – Locate your nearest dealer on our official website

Official Store
<https://www.renogy.com/>

Business Website
<http://partner.renogy.com>

Partner with Us

Become a Renogy dealer or distributor and gain access to our full range of off-grid power solutions. We also offer customized energy solutions tailored specifically for RV manufacturers and marine industry.

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dealer.us@renogy.com

Product specifications, features, and appearances are subject to change without prior notice as part of ongoing product improvements and updates.