



LITHIUM BATTERIES



*50AH



*100AH



*170AH

RENOGY LITHIUM BATTERIES

The Renogy Lithium-Iron Phosphate Battery is perfect for deep-cycle applications including cabins, solar/wind energy systems, UPS battery backups, telecommunication systems, medical equipment, and more. Unlike gel or lead-acid batteries, the Renogy LFP battery is safer, lighter, and more powerful with a long service and shelf life to boot. Invest in this sealed, maintenance-free battery for your off-grid system today!

KEY FEATURES

Designed for Safety

Extremely safe lithium iron phosphate cells, fully sealed and sturdy waterproof housing helps keep the battery from leaking or corrosion.

Extended Lifespan

With more than 2000 cycles the service life is more than double that of traditional lead acid batteries.

Battery Management System (BMS)

The built-in battery protection system optimizes the battery performance by automatically balancing the cells and providing multiple protections against over-charging, over-discharging, over-current, short-circuit and over-temperature.

Wide range of applications

Widely used in RV, Marine and solar applications.

Low self-discharge

The battery self-discharges below 3% per month, providing optimal longevity and shelf life.



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Specifications

Model	RNG-BATT-LFP-12-50	RNG-BATT-LFP-12-100	RNG-BATT-LFP-12-170	
Electric Characteristics				
Nominal Voltage	12.8V			
Rated Capacity (0.2C)	50Ah	100Ah	170Ah	
Minimal Rated Capacity (0.2C)	47.5Ah	95Ah	161.5Ah	
Energy	640Wh	1280Wh	2176Wh	
Specific Energy	95.5Wh/kg	100.4Wh/kg	103.6Wh/kg	
Energy Density	114.4Wh/L	126.7Wh/L	149.1Wh/L	
Internal Resistance	≤50mΩ	≤30mΩ	≤10mΩ	
Cycle Life (0.2C, 20±5°C)	2000 Cycles @ 80% DOD			
Charging Parameters				
Charge Voltage	14.4±0.2V			
Maximum Charge Current	50A		85A	
Charge Cut-off Voltage	14.6V			
Discharging Parameters				
Maximum Continuous Discharge Current	50A	100A	125A	
Discharge Cut-off Voltage	≥10V			
Temperature Parameters				
Operation Temperature Range (60±25% R.H.)	Charge	0~45°C / 32~113°F		
	Discharge	-20~60°C / -4~140°F		
	Recommended	23±5°C / 73.4±9°F		
Storage Temperature Range (60±25% R.H.)	Less Than 1 Year	0~25°C / 32~77°F		
	Less Than 3 Months	-5~35°C / 23~95°F	-10~35°C / 14~95°F	
Mechanical Properties				
Dimensions	Length	197 mm / 7.8 inch	260 mm / 10.2 inch	357 mm / 14.0 inch
	Width	166 mm / 6.5 inch	158 mm / 6.2 inch	155 mm / 6.1 inch
	Height	171 mm / 6.7 inch	246 mm / 9.7 inch	270 mm / 10.6 inch
Weight	6.7 kg / 14.7 lbs	12.75 kg / 28.1 lbs	22 kg / 48.5 lbs	
Housing Material	ABS+PC			
Terminal Model	M8x1.25x12mm	M8x0.75x14mm	M12x1.75x16mm	
Assembly Method	4S15P	4S30P	4S53P	

