



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℃)		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℃ / 32~113°F		
	Discharge	-20~60℃ / -4~140°F		
	Recommended	23±5℃ / 73.4±9°F		
Storage Temperature Range (60±25% R.H.)	Less Than 1 Year	0~25℃ / 32~77°F		
	Less Than 3 Months	-5~35℃ / 23~95°F	-10~35℃ / 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