



12V 100AH SMART LITHIUM IRON PHOSPHATE BATTERY W/ SELF-HEATING FUNCTION



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The Renogy Smart Lithium Iron Phosphate Battery enables auto-balancing between parallel connections and provides more flexibility for the battery bank configuration. The integrated battery management system (BMS) not only protects the battery from various abnormal conditions but monitors and manages the charging and discharging process. The state-of-the-art battery cells ensure an extended cycle life and exceptional discharge performance. With built-in intelligent self-heating, the battery is rechargeable even in low-temperature conditions.

KEY FEATURES

Auto-Balancing

Connect multiple batteries in parallel safely with the auto-balancing function—designed to meet the power and energy requirements of different system setups.

Ultra-Safe

The battery management system (BMS) provides comprehensive protection to the battery and manages the charging and discharging process.

Uncompromised Quality

The state-of-the-art battery cells ensure an exceptional lifespan of more than 4000 cycles (80% DOD), up to 100A continuous discharge current, and a wide range of operating temperatures.

Communication Port

The communication ports enable communication between connected batteries, external devices, and host computers.

Self-Heating

The intelligent self-heating feature keeps the battery charged in cold environments.

SPECIFICATIONS

Rated Capacity	100Ah
Nominal Voltage	12.8V
Voltage Range	10V~14.8V
Maximum Continuous Charging Current	50A
Maximum Continuous Discharging Current	100A
Charge Temperature	32~131°F/ 0~55°C
Discharge Temperature	-4~140°F/ -20~60°C
Storage Temperature	-13~149°F / -25~65°C
Cycle Life (0.2C, 25°C)	4000 Cycles (80% DOD)
Insulation Resistance	500V DC, $\geq 10\text{ M}\Omega$
Dimensions	11.4 x 6.8 x 7.4 inch / 289 x 172 x 187.5 mm
Weight	26.2 lbs. / 11.9 kg
Protection Rate	IP54
Communication Port	RJ45 (RS485 Protocol)
Connection Method	Parallel
Certification	UN38.3, MSDS, CE, UL 1642 (Battery Cell)

