RAZORBACK LITHIUM

LITHIUM IRON PHOSPHATE (LiFePO4) BATTERY

LFP12.8-13 | **12.8V 13AH** | **166.4Wh**

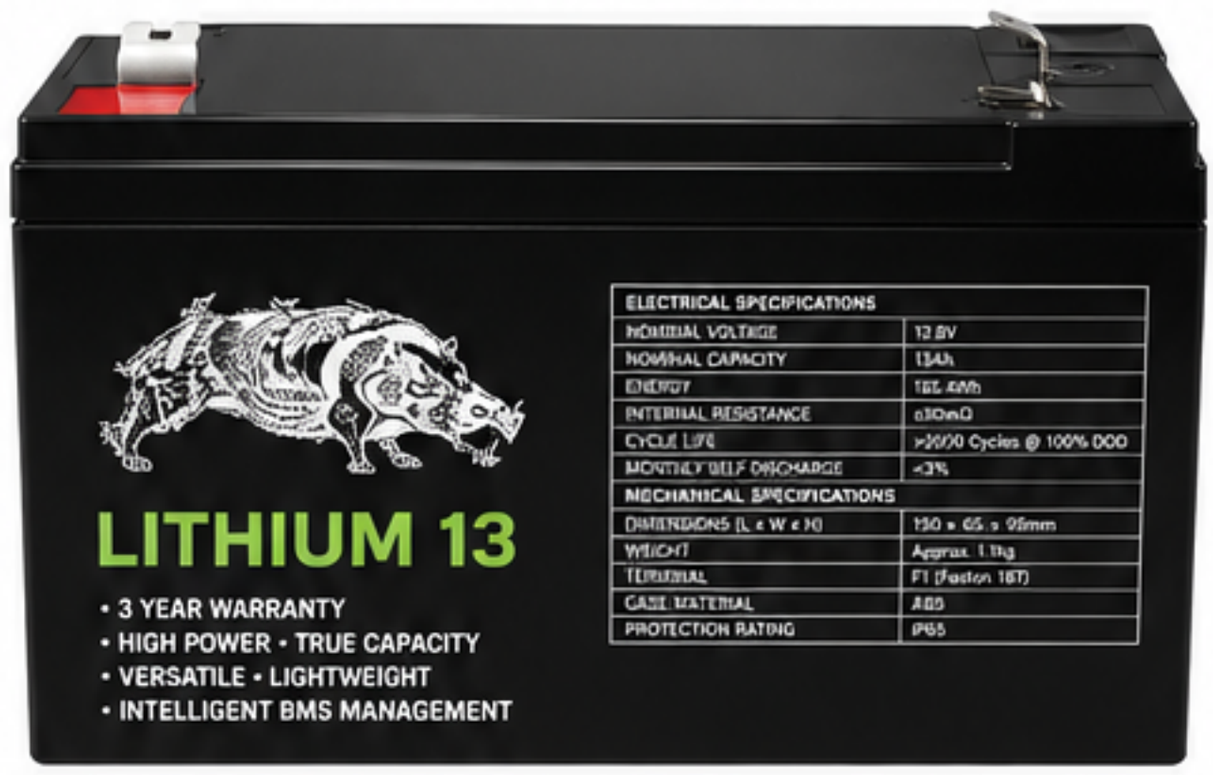
FEATURES OF LiFePO4 BATTERY

LONGER CYCLE LIFE
LiFePO4 batteries would be five times than SLA batteries on cycle life

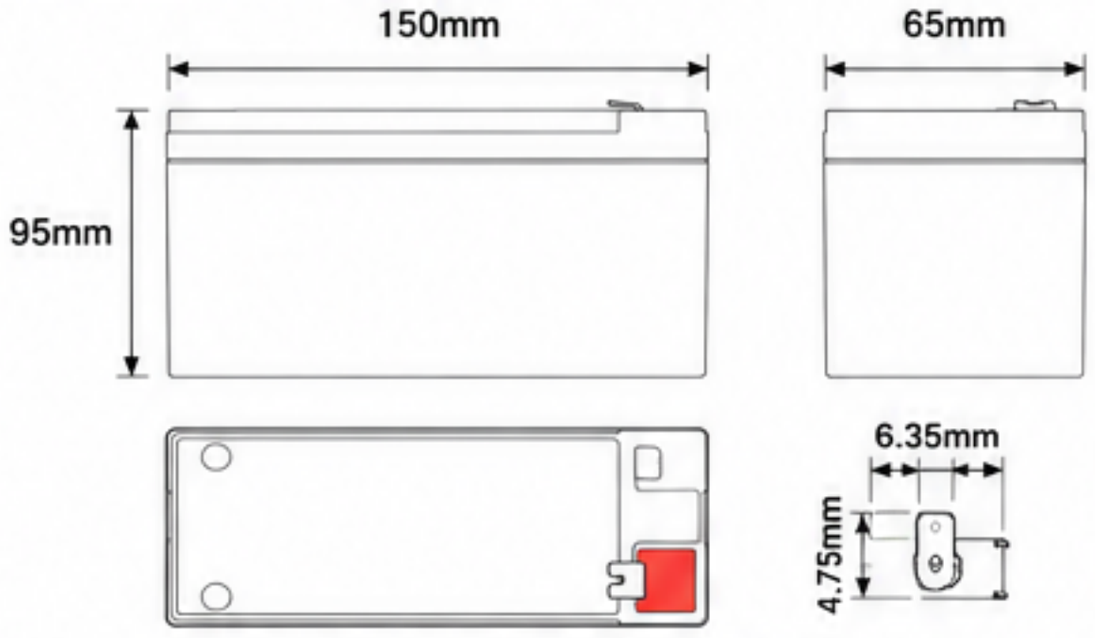
HIGH POWER & LIGHT WEIGHT
LiFePO4 batteries performance twice power of SLA batteries, while half weight helpful for transport and installation

INTELLIGENT MANAGEMENT CONTROL
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

LOWER SELF-DISCHARGE RATE
Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries



PHYSICAL DIMENSIONS



Dimensions: 150mm (L) x 65mm (W) x 95mm (H)

APPLICATIONS

- Wheelchairs and scooters
- UPS (replacement of SLA batteries)
- Solar/wind energy storage
- Alarm and security system
- Tools

SPECIFICATION	PARAMETER	
ELECTRICAL CHARACTERISTICS	Chemistry	LiFePO4
	Nominal Voltage	12.8V
	Nominal Capacity	13Ah (C5,25°C)
	Energy	166.4Wh
	Internal Resistance	≤50 mΩ
	Cycle Life	>2000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96-99% @1C
STANDARD CHARGE	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
	Charger Current	6.5A
	Max. Charge Current	10A
	Charge Cut-off Voltage	15.6V±0.2V
STANDARD DISCHARGE	Rated Discharge Current	6.5A
	Max Discharge Current	10A
	Max. Pulse Current	45A(<3s)
	Discharge Cut-off Voltage	10V
	Charge Temperature	0 °C to 45 °C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 °C to 40 °C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP67
MECHANICAL	BMS	10A 4S/4P
	Plastic Case	ABS
	Dimensions (in./mm.)	150 x 65 x 95 mm
	Weight (lbs./kg.)	1.5kg (3.3 lbs)
	Terminal	F1 (Faston 187)

3 YEAR WARRANTY
Peace of mind with full support

LONG CYCLE LIFE
>2000 cycles @1C 100%DOD

LIGHTWEIGHT
High energy density & easy to install

INTELLIGENT BMS
Protection, performance and longer battery life