

Features

- Built-in BMS for protection
- Ultra-lightweight design
- Wide working temperature range
- High integration with a compact size and high energy density
- Eco-friendly, clean energy
- Long lifespan and sustainability
- High efficiency

RS PRO Rechargeable Battery Packs

RS Stock No.: 0183349



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

Our Lithium Iron Phosphate (LFP) battery offers exceptional safety, reliability and performance. It features a long cycle life, making it ideal for electric vehicles, renewable energy storage, industrial applications and consumer electronics. With consistent voltage output and a high energy density, it ensures stable power for demanding uses. Environmentally friendly and cost-effective, the LFP battery operates efficiently in various temperatures. Key benefits include maintenance free, durable and long-lasting energy.

General Specifications

Chemistry	Lithium iron phosphate
Number Of Cells	12
Terminal Type	T2
Size	151*98*98mm
Cycle Life At 80%	5000
Shelf Life	15years
Charge Frequency During Storage	6 months
Application	Solar/wind energy storage system; Lighting etc...

Electrical Specifications

Nominal Voltage	12.8V
Capacity	12 Ah
Maximum Charge Voltage	14.6V
Standard Charge (16H)	0.75A
Fast Charge (1H)	12A
Operating Voltage	10.0V to 14.6V
Internal Resistance (At 1000HZ)	<20m Ω
Cut-Off Voltage	10.0V
Over-Charge Recovery Voltage	14.6V
Over-Discharge Detect Voltage	10.0V
Over-Discharge Recovery Voltage	10.0V
Overcurrent Protection	30A
Idle Mode	<100 μ A
Main Loops Electrify Resistance	$\leq$ 10m Ω
Energy	153.6Wh
Continuous Current	15A
Maximum Pulse Current	30A(<11ms)

Open Circuit Voltage	12.8V
Impedance	$\leq 10\text{m}\Omega$

Mechanical Specifications

Length	151mm
Width	98mm
Height	98mm
Weight	1.4Kg
Wire	B-/P-: 14AWG
Length Of Wire	B-/P-: 120mm
Relative Humidity	<95%

Operation Environment Specifications

Charge Temperature Range	0°C to 45°C
Discharge Temperature Range	-20°C to 60°C
Storage Temperature Range	-20°C to 25°C