

UI12100

Technical Datasheet



LiFe PoWER

Li-Ion LFP Benefits Over SLA

- Capable of nearly full nameplate capacity delivery vs. 50% typically from SLA
- >3000 full depth of discharge cycles
- Uniform voltage during discharge
- Long duration charge retention (no trickle charging required)
- Light weight
- No venting
- Wider temperature range

Features

- Screw terminals

Applications

- Scooters / wheelchairs
- UPS replacement
- Solar battery

Technical Specifications

Part No	UI12100
Chemistry	Lithium Iron Phosphate
Nominal Voltage	12V (13.2V average)
Nominal Capacity	100Ah at 0.2C discharge rate
Energy	1200Wh
Max. Continuous Discharge Current	100A (not greater than 10min duration)
Discharge Cut-off Voltage	Approx. 10V
Charge Voltage	14.4 ± 0.1V (see table)
Charge Mode	CC/CV use a constant current, constant voltage (CC/CV) charging regime
Max. Charge Current	50A (see table)
Internal Resistance	≤20mΩ
Operating Temperature	Charge: 0°C to 45°C Discharge: -20°C to 60°C
Weight	Approx. 13.9 ± 0.1kg (30.64 ± 0.2lb)
Size	Length: 342 ± 2mm (13.46in) Width: 173 ± 2mm (6.81in) Height: 212 ± 2mm (8.35in)
Connector	Connector size: M8
Protection	Over charge protection Over discharge protection Over current protection Temperature protection Cell balancing function
Transportation	Class 9 Hazardous

Constant Voltage Charge at 23°C	Voltage Regulation	Initial Current
Standby Use	13.6V	50A
Cycle Use	14.4V	50A