

URB121000

Technical Datasheet

Pre-production Samples Q3



LITHIUMPOWER

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
- IEC 62133 safety compliant

Applications

- Scooters / wheelchairs
- UPS replacement
- Solar battery

Technical Specifications

Part No	URB121000
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
Over Current Protection	400 ± 20A
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	100A (see table)
Internal Resistance	≤10mΩ
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
Safety	IEC62133 "CB" Mark
CB ID	JPTUV-056353
Transportation	Class 9 Hazardous

Constant Voltage Charge at 23°C	Voltage Regulation	Initial Current
Standby Use	13.6V	100A
Cycle Use	14.4V	100A