

UI1255A

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
- Medical carts

Technical Specifications

Part No	UI1255A
Chemistry	Lithium Iron Phosphate
Nominal Voltage	12.8V (13.2V average)
Nominal Capacity	55Ah \pm 1Ah at 0.2C discharge rate
Energy	660Wh
Max. Continuous Discharge Current	30A
Discharge Cut-off Voltage	Approx. 10V
Charge Voltage	14.4 \pm 0.2V (see table)
Charge Mode	CC/CV use a constant current, constant voltage (CC/CV) charging regime
Max. Charge Current	20A (see table)
Internal Resistance	\leq 30m Ω
Operating Temperature	Charge: 0°C to 45°C Discharge: -20°C to 60°C
Weight	Approx. 7.85 \pm 0.1kg (17.3 \pm 0.2lb)
Size	Length: 250 \pm 2mm (9.05in) Width: 160 \pm 2mm (5.50in) Height: 175 \pm 2mm (8.35in)
Connector	Connection size: M6
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	20A
Cycle Use	14.4V	20A

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