

URB12350

Technical Datasheet

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Li-Ion LFP Benefits over SLA

- Uniform voltage during discharge
- No need to provide trickle charging to retain battery's charge
- Significantly lighter weight for the same amount of energy
- Battery does not outgas during use
- Nominal voltage is maintained over a wider temperature range

Features

- Integrated carry handles
- Can be properly charged using a 2 phase SLA charger
- IEC 62133-2 compliant

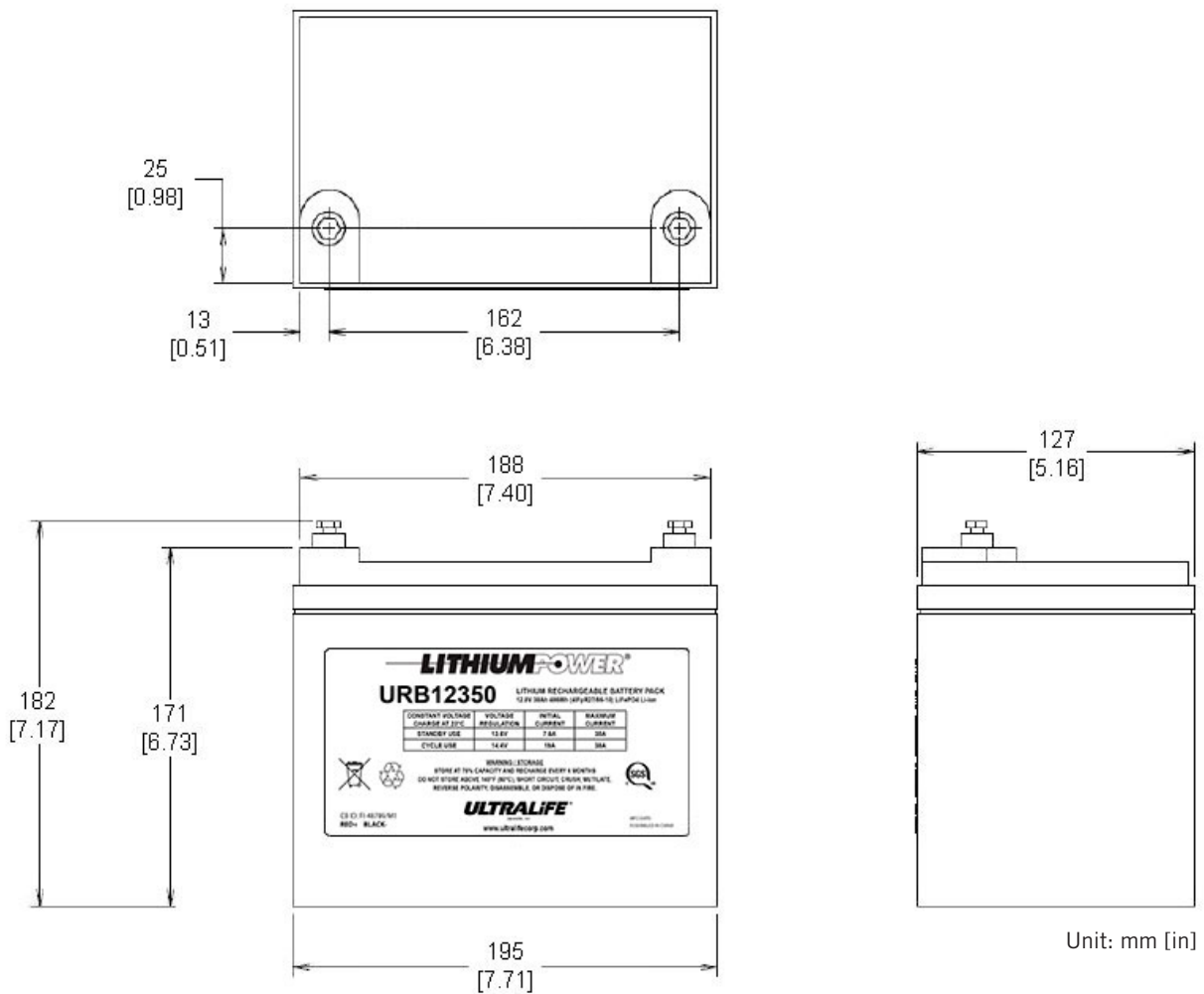
Applications

- Scooters / wheelchairs
- UPS battery replacement
- Solar battery

Technical Specifications	
Part No	URB12350
Chemistry	Lithium Iron Phosphate (LFP)
IEC Designation	4IFpR27/66-10
Average Voltage	12.8V
Nominal Capacity ¹	38.0Ah
Voltage Range	10.0V - 14.4V
Max. Continuous Discharge	76.0A
Max. Pulse Discharge ²	250 ± 10A
Energy ¹	486Wh
Energy Density	103Wh/kg, 115Wh/l
Weight	Approx. 4.7 ± 0.1kg (10.36 ± 0.22lbs)
Cycle Life ³	>1,500 cycles
Operating Temperature	-20°C to +60°C (discharging), 0°C to +45°C (charging)
Storage Temperature	0°C to +40°C
Internal Resistance	≤35mΩ
Self-Discharge @ +23°C	<5% per month
Memory Effect	None
Exterior/Housing	Hard plastic, ABS
Terminals/Connector	M6 Screw Terminals (Torque 6.0-7.0N-m)
Size	Length: 195 ± 2mm (7.76in), Width: 127 ± 2mm (5.08in) Height: 171 ± 2mm (6.73in)
Communications	None
State of Charge Indicator	None
Protection	Overcharge: 3.90V (per cell) Over Discharge: 2.00V (per cell) Over Current: 250 ± 30A (5-20ms) Over Temperature: 65 ± 5°C Short Circuit Cell Imbalance
Charging	Connect the battery to a DC power source using correct polarity and apply a maximum voltage of 14.4V. Limit the current to the recommended rate of 7.6A and hold 14.4V until the current declines to 760mA. Maximum charge rate is 38.0A. Alternatively, you may apply a maximum charge voltage of 13.6V (limiting the current to 7.6A) and hold indefinitely to maintain the battery in a continuous standby state-of-charge of between 70-90%.
Safety	Material Safety Datasheet - MSDS00152 Refer also to Safety Guide UBM-5112
Certification	IEC 621333-2 CB scheme (ID: FI-48789/M1) SGS NA listed mark (UL 2054) UN 38.3
Transportation ⁴	UN 3480 Dangerous Good Class 9, Total Energy >300Wh UN Testing Summary - UNTS-0267
Harmonized Tariff Schedule	8507.60.0000
Notes	1. Using a C/5 discharge rate at +25°C. 2. Maximum pulse width of between 5ms and 20ms. 3. Number of consecutive C/5 rate discharges and recommended charges at +25±5°C until the battery reaches 80% of initial capacity. 4. For transportation regulations, classifications and lithium content, contact Ultralife.

Constant Voltage Charge at +23°C	Voltage Regulation	Initial Current	Maximum Current
Standby Use	13.6V	7.6A	38.0A
Cycle Use	14.4V	19.0A	38.0A

Dimensions



190401190412000001
ASSEMBLED IN CHINA

Bar Code Detail:

(Example: 190401190412000001)

1st six digits (190401) = YYMMDD Cell Assembly Date

2nd six digits (190412) = YYMMDD Battery Pack Assembly Date

Final six digits (000001) = Battery Pack Serial Number