

URB12350

Technical Datasheet



LITHIUMPOWER®

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 become gaseous 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 62133-2
CB scheme (ID: FI-48789/M1)
SGS NA listed mark (UL 2054)
UN 38.3

Transportation⁴ UN 3480 Dangerous Good Class 9, Total Energy >300Wh
UN Testing Summary - UNTS-0267

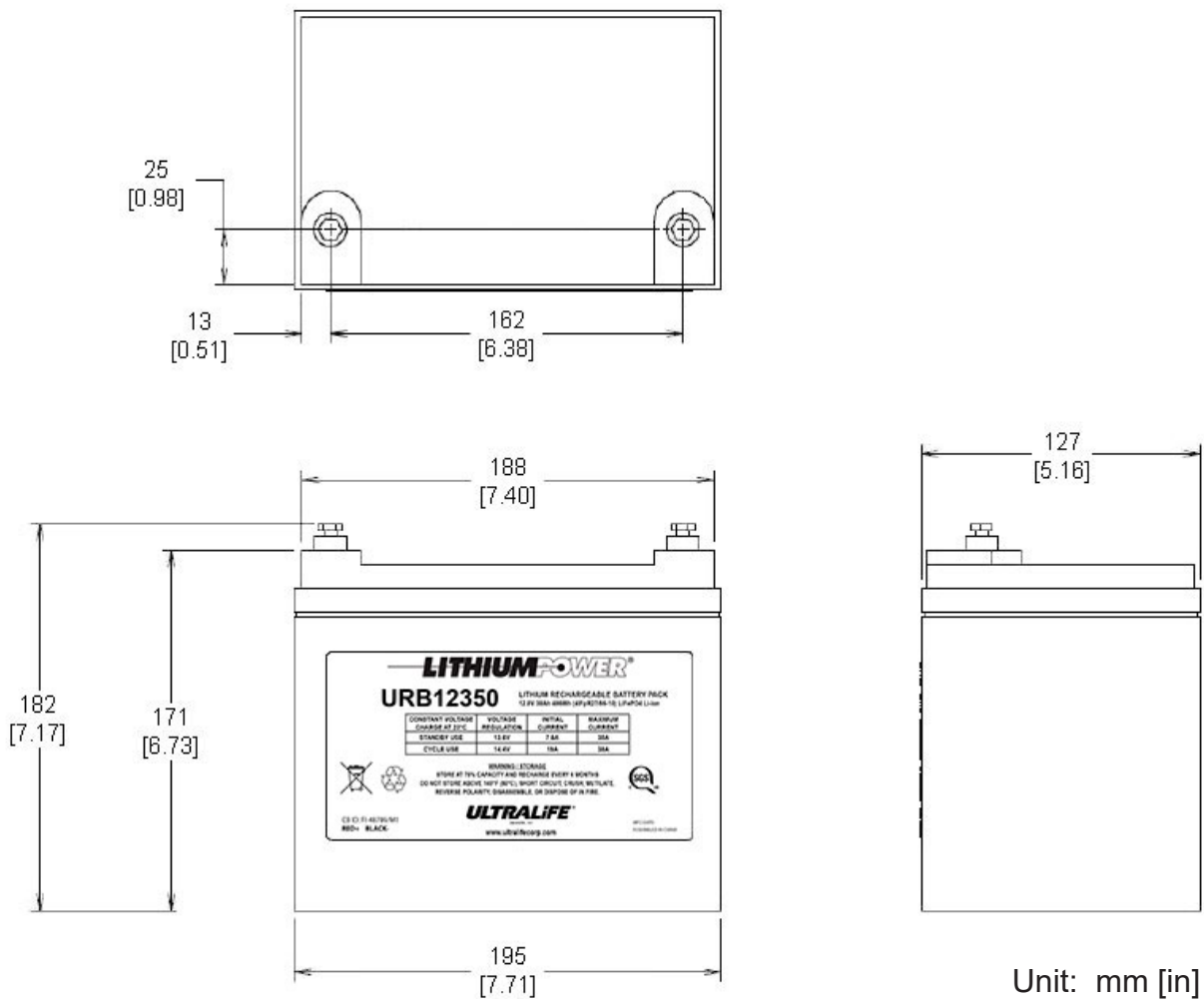
Harmonized Tariff Schedule 8507.60.0000

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. Transportation regulations, classifications and lithium content are available on the Ultralife website.

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



Unit: mm [in]



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

URB12350 (A26650)

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