# URB12350
## Technical Datasheet




LITHIUM POWER®

## 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

| 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 |

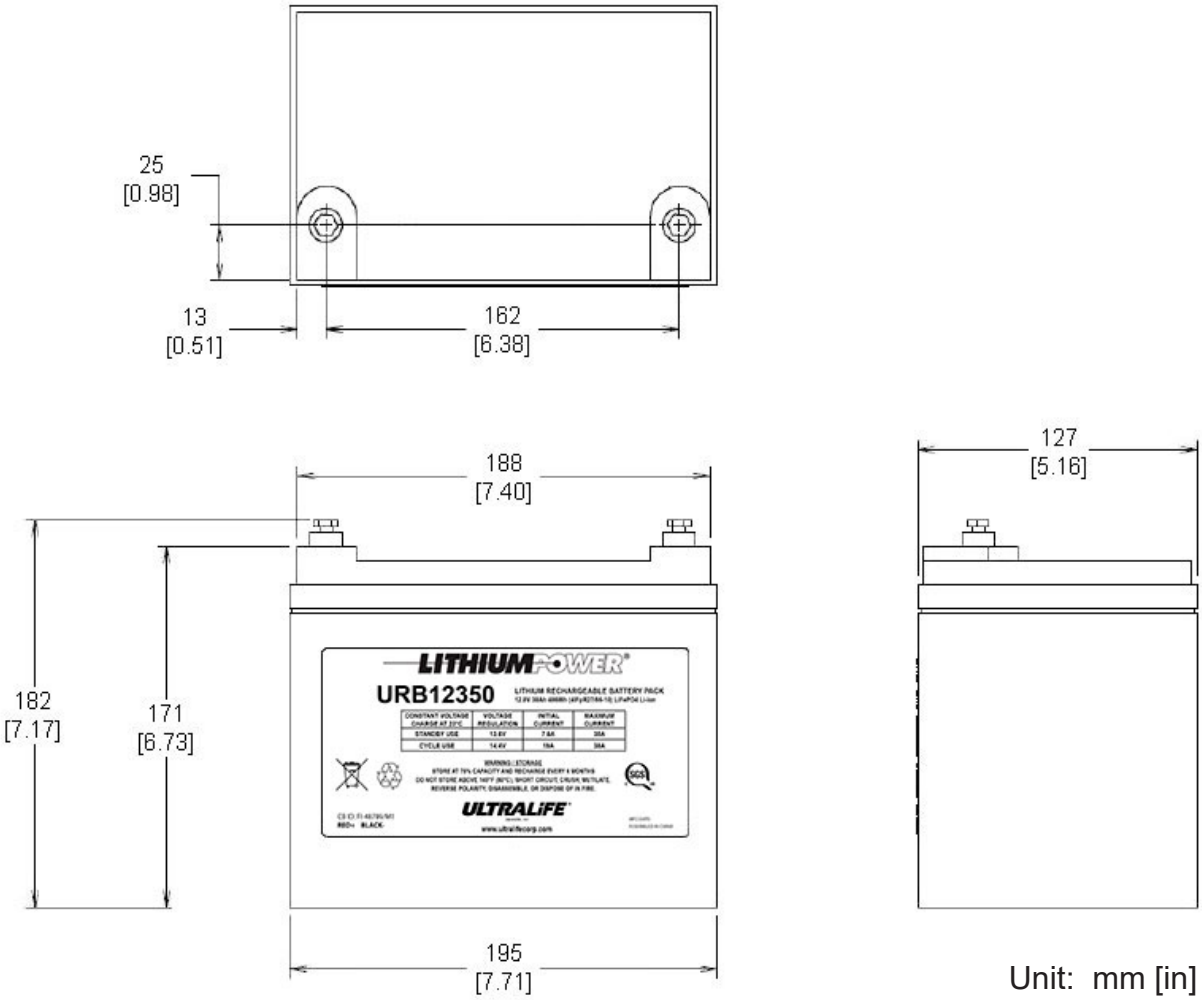
| Technical Specifications | |
|---|---|
| **Part No** | URB12350 |
| **Chemistry** | Lithium Iron Phosphate (LFP) |
| **IEC Designation** | 4IFpR27/66-10 |
| **Average Voltage** | 12.8V |
| **Nominal Capacity**[1] | 38.0Ah |
| **Voltage Range** | 10.0V - 14.4V |
| **Max. Continuous Discharge** | 76.0A |
| **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)<br>Width: 127 ± 2mm (5.08in)<br>Height: 171 ± 2mm (6.73in) |
| **Communications** | None |
| **State of Charge Indicator** | None |
| **Protection** | Overcharge: 3.90V (per cell)<br>Over Discharge 2.00V (per cell)<br>Over Current: 250 ± 30A (5-20ms)<br>Over Temperature: 65 ± 5°C<br>Short Circuit<br>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 thebattery in a continuous standby state-of-charge of between 70-90%. |
| **Safety** | Material Safety Datasheet - MSDS00152<br>Refer also to Safety Guide UBM-5112 |
| **Certification** | IEC 621333-2<br>CB scheme (ID: FI-48789/M1)<br>SGS NA listed mark (UL 2054)<br>UN 38.3 |
| **Transportation**[4] | UN 3480 Dangerous Good Class 9, Total Energy >300Wh<br>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.


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## Dimensions




Unit: mm [in]




**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


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