

# 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
- IEC62133, 2nd edition 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              | 6.4A            | 32A             |
| Cycle Use                       | 14.4V              | 16A             | 32A             |

### Technical Specifications

|   |  |                    |
|---|--|--------------------|
| <b>Part No</b>                          | URB12350   |                    |
| <b>Chemistry</b>                        | Lithium Iron Phosphate (LFP)   |                    |
| <b>IEC Designation</b>                  | 4IFR27/66-10   |                    |
| <b>Average Voltage</b>                  | 12.8V  |                    |
| <b>Nominal Capacity<sup>1</sup></b>     | 32.0Ah   |                    |
| <b>Voltage Range</b>                    | 10.0V - 14.4V  |                    |
| <b>Max. Continuous Discharge</b>        | 65.0A  |                    |
| <b>Max. Pulse Discharge<sup>2</sup></b> | 250 ± 10A  |                    |
| <b>Energy<sup>1</sup></b>               | 410Wh  |                    |
| <b>Energy Density</b>                   | 89Wh/kg, 105Wh/l   |                    |
| <b>Weight</b>                           | Approx. 4.6 ± 0.1kg (10.14 ± 0.22lbs)  |                    |
| <b>Cycle Life<sup>3</sup></b>           | >1500 cycles   |                    |
| <b>Operating Temperature</b>            | -20°C to 60°C discharging<br>0°C to 45°C charging  |                    |
| <b>Storage Temperature</b>              | 0°C to 40°C  |                    |
| <b>Internal Resistance</b>              | ≤35mΩ  |                    |
| <b>Self-Discharge @ 23°C</b>            | <5% per month  |                    |
| <b>Memory Effect</b>                    | None   |                    |
| <b>Exterior/Housing</b>                 | Hard plastic, ABS  |                    |
| <b>Terminals/Connector</b>              | M6 Screw Terminals   |                    |
| <b>Size</b>                             | Length:  | 195 ± 1mm (7.71in) |
|   | Width:   | 127 ± 1mm (5.16in) |
|   | Height:  | 165 ± 1mm (6.10in) |
| <b>Communications</b>                   | None   |                    |
| <b>State of Charge Indicator</b>        | None   |                    |
| <b>Protection</b>                       | Overcharge:  | 3.90V (per cell)   |
|   | Over Discharge:  | 2.00V (per cell)   |
|   | Over Current:  | 250 ± 10A (5-20ms) |
|   | Over Temperature:  | 65 ± 5°C           |
|   | Short Circuit  |                    |
|   | Cell Imbalance   |                    |
| <b>Charging</b>                         | 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 6.4A and hold 14.4V until the current declines to 640mA. Maximum charge rate is 32.0A. Alternatively, you may apply a maximum charge voltage of 13.6V (limiting the current to 6.4A) and hold indefinitely to maintain the battery in a continuous standby state-of-charge of between 70-90%. |                    |
| <b>Safety</b>                           | Material Safety Datasheet - MSDS00152<br>Refer also to Safety Guide UBM-5112   |                    |
| <b>Certification</b>                    | CB Scheme<br>ID: JPTUV-053719<br>UL 2054   |                    |
| <b>Transportation</b>                   | Class 9 International and within U.S. <sup>4</sup> Excepted when shipped by motorcar or rail within U.S.   |                    |
| <b>Harmonized Tariff Schedule</b>       | 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

# Dimensions

