

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 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 power battery

| Constant Voltage Charge at 23°C | Voltage Regulation | Initial Current | Maximum Current |
|---------------------------------|--------------------|-----------------|-----------------|
| Standby Use | 13.6V | 7.6A | 38A |
| Cycle Use | 14.4V | 19A | 38A |

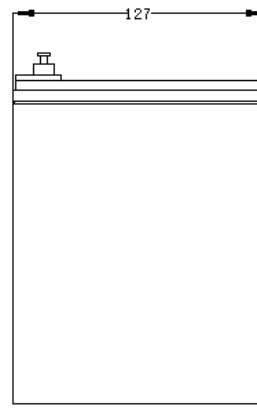
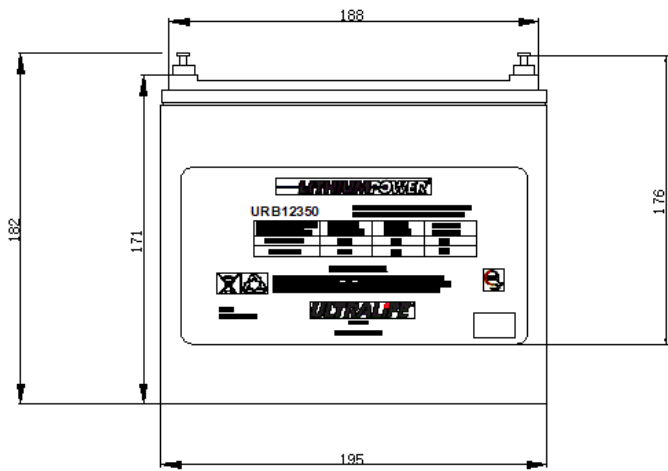
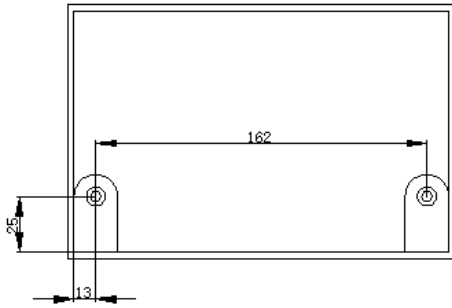
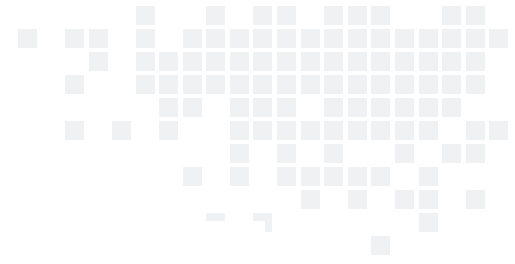
Technical Specification

| | | |
|---|---|--------------------|
| Part No. | URB12350 | |
| Chemistry | Lithium Iron Phosphate (LFP) | |
| IEC Designation | 4IFpR27/66-10 | |
| Average Voltage | 12.8V | |
| Nominal Capacity¹ | 38.0Ah | |
| Voltage Range | 10.0V - 14.4V | |
| Max. Continuous Discharge | 76.0A | |
| Max. Pulse Discharge² | 250 ± 10A | |
| Energy¹ | 486Wh | |
| Energy Density | 115Wh/kg, 103Wh/l | |
| Weight | Approx. 4.7 ± 0.1kg | |
| Cycle Life³ | >1500 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 | |
| Size | Length: | 195 ± 2mm (7.71in) |
| | Width: | 127 ± 2mm (5.0in) |
| | 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 | IEC621333-2(CB ref: FI-48789) SGS NA listed Mark(UL2054) UN38.3 | |
| Transportation | Class 9 International and within U.S. ⁴ Excepted when shipped by motorcar or rail within U.S. | |
| Harmonized Tariff Schedule | 8507.60.0020 | |

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 China website.

Dimensions



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