

# URB1270

## Technical Datasheet



### 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

- Can be properly charged using a 2 phase SLA charger
- IEC 62133-2:2017 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              | 1.5A            | 7.5A            |
| Cycle Use                       | 14.4V              | 3.75A           | 7.5A            |

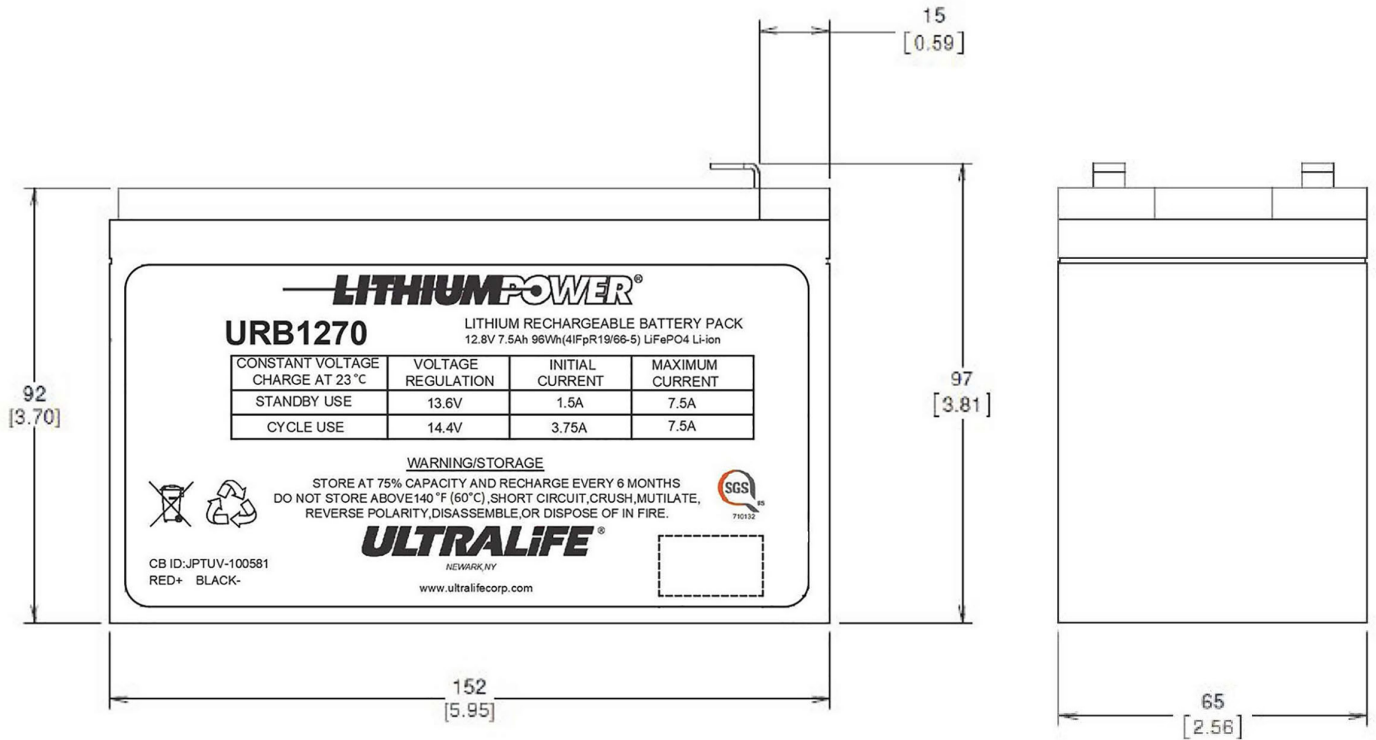
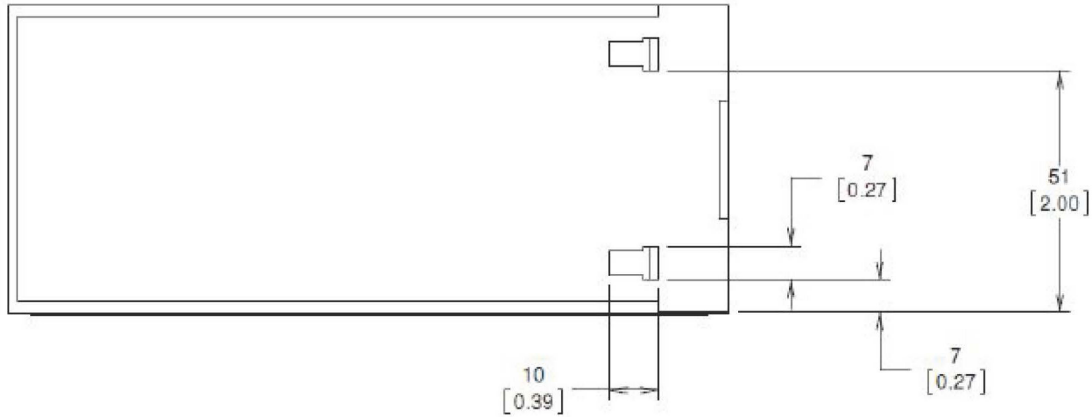
### Technical Specifications

|   |  |                    |
|---|--|--------------------|
| <b>Part No</b>                          | URB1270  |                    |
| <b>Chemistry</b>                        | Lithium Iron Phosphate (LFP)   |                    |
| <b>IEC Designation</b>                  | 4IFpR19/66-5   |                    |
| <b>Average Voltage</b>                  | 12.8V  |                    |
| <b>Nominal Capacity<sup>1</sup></b>     | 7.5Ah  |                    |
| <b>Voltage Range</b>                    | 10.0V - 14.4V  |                    |
| <b>Max. Continuous Discharge</b>        | 15.0A  |                    |
| <b>Max. Pulse Discharge<sup>2</sup></b> | 70 ± 10A   |                    |
| <b>Energy<sup>1</sup></b>               | 96Wh   |                    |
| <b>Energy Density</b>                   | 87Wh/kg, 104Wh/l   |                    |
| <b>Weight</b>                           | Approx. 1.1 ± 0.1kg (2.4 ± 0.2lbs)   |                    |
| <b>Cycle Life</b>                       | >1500 cycles   |                    |
| <b>Operating Temperature</b>            | -20°C to 50°C discharging<br>0°C to 45°C charging  |                    |
| <b>Storage Temperature</b>              | 0°C to 40°C  |                    |
| <b>Internal Resistance</b>              | ≤70mΩ  |                    |
| <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>              | F1 Faston Tabs   |                    |
| <b>Size</b>                             | Length:  | 152 ± 1mm (5.95in) |
|   | Width:   | 65 ± 1mm (2.56in)  |
|   | Height:  | 92 ± 1mm (3.70in)  |
| <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:  | 70 ± 10A (5-15ms)  |
|   | 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 1.5A and hold 14.4V until the current declines to 150mA. Maximum charge rate is 7.5A.<br>Alternatively, you may apply a maximum charge voltage of 13.6V (limiting the current to 1.5A) 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>Certifications</b>                   | CB Scheme<br>ID: JPTUV-100581<br>UL2054  |                    |
| <b>Transportation</b>                   | Class 9 International and within U.S. <sup>4</sup> Excepted when shipped by motorcar or rail within U.S.<br>UN Testing Summary - UNTS-0007   |                    |
| <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 7ms and 17ms.
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



**LITHIUM POWER®**

**URB1270** LITHIUM RECHARGEABLE BATTERY PACK  
12.8V 7.5Ah 96Wh(4IFpR19/66-5) LiFePO4 Li-ion

| CONSTANT VOLTAGE CHARGE AT 23 °C | VOLTAGE REGULATION | INITIAL CURRENT | MAXIMUM CURRENT |
|----------------------------------|--------------------|-----------------|-----------------|
| STANDBY USE                      | 13.6V              | 1.5A            | 7.5A            |
| CYCLE USE                        | 14.4V              | 3.75A           | 7.5A            |

**WARNING/STORAGE**  
STORE AT 75% CAPACITY AND RECHARGE EVERY 6 MONTHS  
DO NOT STORE ABOVE 140°F (60°C), SHORT CIRCUIT, CRUSH, MUTILATE,  
REVERSE POLARITY, DISASSEMBLE, OR DISPOSE OF IN FIRE.

**ULTRALIFE®**  
NEWARK, NY  
www.ultralifecorp.com

CB ID: JPTUV-100581  
RED+ BLACK-

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