

# URB1270

## 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

- 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	1.52A	7.6A
Cycle Use	14.4V	3.8A	7.6A

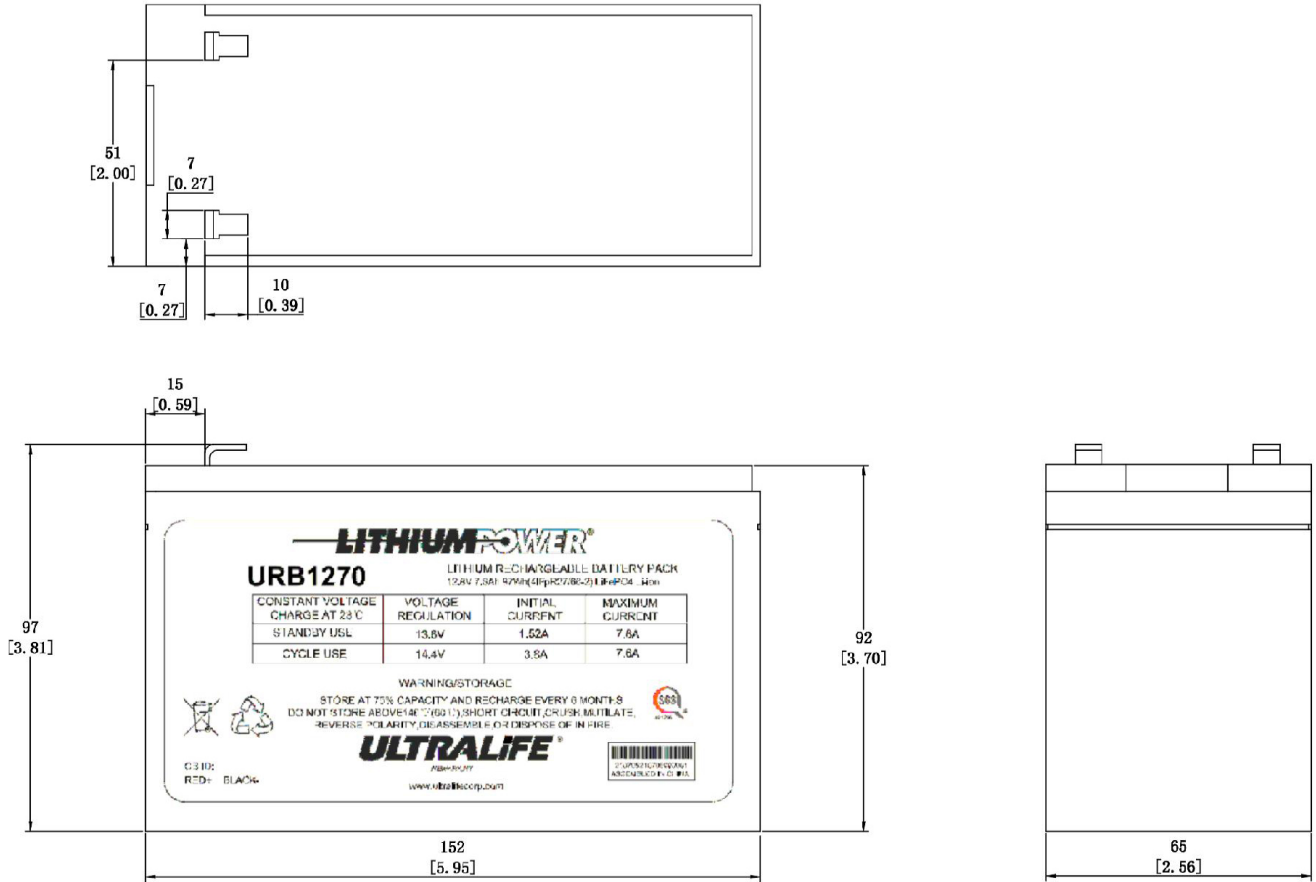
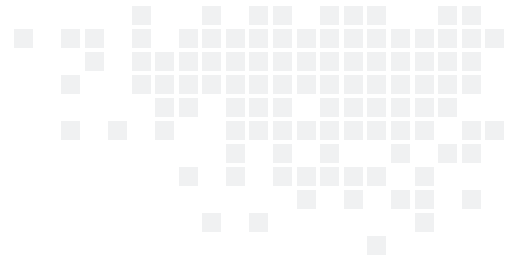
### Technical Specifications

<b>Part No</b>	URB1270	
<b>Chemistry</b>	Lithium Iron Phosphate (LFP)	
<b>IEC Designation</b>	4IFpR27/66-2	
<b>Average Voltage</b>	12.8V	
<b>Nominal Capacity</b>	7.6Ah (see note 1)	
<b>Voltage Range</b>	10.0V - 14.4V	
<b>Max. Continuous Discharge</b>	15.0A	
<b>Max. Pulse Discharge</b>	55A (see note 2)	
<b>Energy</b>	97Wh (see note 1)	
<b>Energy Density</b>	97Wh/kg, 107Wh/l	
<b>Weight</b>	Approx. 1.0 ± 0.1kg (2.2 ± 0.2lbs)	
<b>Cycle Life</b>	>1,500 cycles (see note 3)	
<b>Operating Temperature</b>	-20°C to +60°C discharging 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 1.52A and hold 14.4V until the current declines to 150mA. Maximum charge rate is 7.6A. Alternatively, you may apply a maximum charge voltage of 13.6V (limiting the current to 1.52A) 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 Refer also to Safety Guide UBM-5112	
<b>Certifications</b>	CB scheme (ID: FI-51455) UL 2054	
<b>Transportation</b>	UN 3480 Dangerous Good Class 9, Total Energy <100Wh If packed in or with equipment (UN 3481), contact Ultralife for guidance or other questions. UN Testing Summary - UNTS-0258	
<b>Harmonized Tariff Schedule</b>	8507.60.0000	

### Notes

1. Using a C/5 discharge rate at +25°C.
2. Maximum pulse width of 1 second. Varies according to pulse characteristics, temperature, cell history and the application. Consult Ultralife.
3. Number of consecutive C/5 rate discharges and recommended charges at 25 ± 5°C until the battery reaches 80% of initial capacity.

# Dimensions



Unit: mm [inches]



### 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

# Performance Graphs

