ULTRALIFE
BATTERY & ENERGY PRODUCTS

URB1270
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

- Can be properly charged using a 2 phase SLA charger
- IEC 62133-2:2017 compliant

Applications

- Scooters / wheelchairs
- UPS battery replacement
- Solar power battery

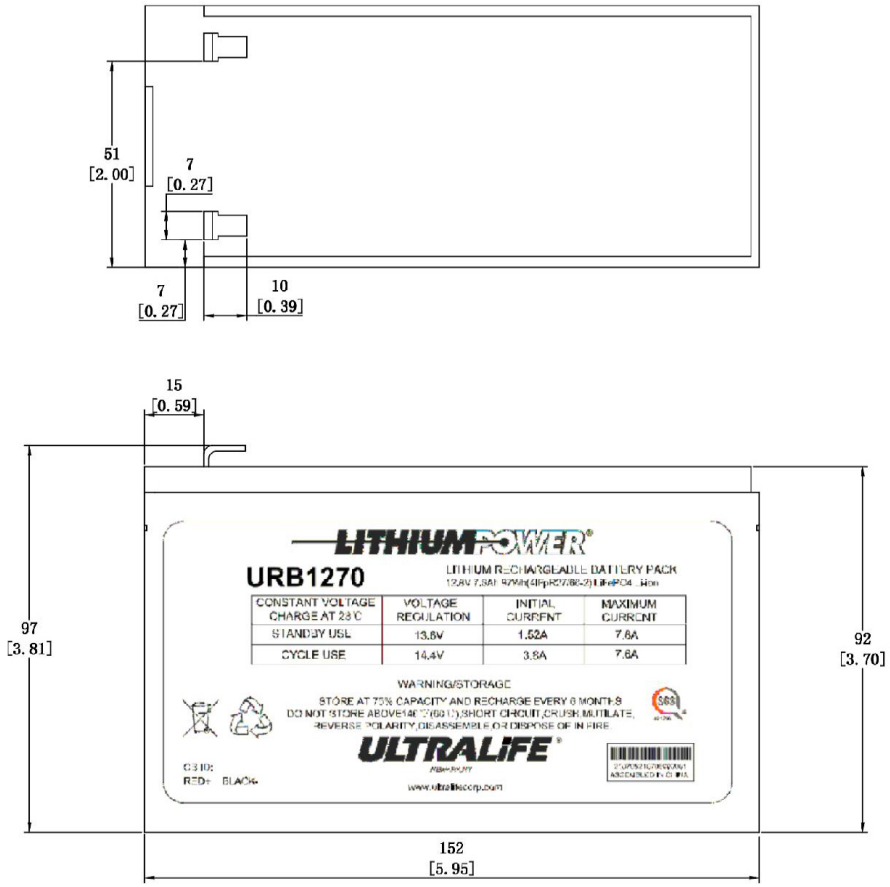
Constant Voltage Charge at +23˚C	Voltage Regulation	Initial Current	Maximum Current
Standby Use	13.6V	1.52A	7.6A
Cycle Use	14.4V	3.8A	7.6A

Technical Specifications		
Part No	URB1270	
Chemistry	Lithium Iron Phosphate (LFP)	
IEC Designation	4IFpR27/66-2	
Average Voltage	12.8V	
Nominal Capacity	7.6Ah (see note 1)	
Voltage Range	10.0V - 14.4V	
Max. Continuous Discharge	15.0A	
Max. Pulse Discharge	55A (see note 2)	
Energy	97Wh (see note 1)	
Energy Density	97Wh/kg, 107Wh/l	
Weight	Approx. 1.0 ± 0.1kg (2.2 ± 0.2lbs)	
Cycle Life	>1,500 cycles (see note 3)	
Operating Temperature	-20°C to +60°C discharging 0°C to +45°C charging	
Storage Temperature	0°C to +40°C	
Internal Resistance	≤70mΩ	
Self-Discharge @ +23°C	<5% per month	
Memory Effect	None	
Exterior/Housing	Hard plastic, ABS	
Terminals/Connector	F1 Faston Tabs	
Size	Length: Width: Height:	152 ± 1mm (5.95in) 65 ± 1mm (2.56in) 92 ± 1mm (3.70in)
Communications	None	
State of Charge Indicator	None	
Protection	Overcharge: Over Discharge: Over Current: Over Temperature: Short Circuit Cell Imbalance	3.90V (per cell) 2.00V (per cell) 70 ± 10A (5-15ms) 65 ± 5°C
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 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%.	
Safety	Material Safety Datasheet - MSDS00152 Refer also to Safety Guide UBM-5112	
Certifications	CB scheme (ID: FI-51455) UL 2054	
Transportation	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	
Harmonized Tariff Schedule	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.

Newark, New York | +1 315-332-7100 | Fax: +1 315-331-7800

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