

# 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
- IEC 62133-2 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	7.6A	38.0A
Cycle Use	14.4V	19.0A	38.0A

### Technical Specifications

Part No	URB12350	
Chemistry	Lithium Iron Phosphate (LFP)	
IEC Designation	4IFpR27/66-10	
Average Voltage	12.8V	
Nominal Capacity <sup>1</sup>	38.0Ah	
Voltage Range	10.0V - 14.4V	
Max. Continuous Discharge	76.0A	
Max. Pulse Discharge <sup>2</sup>	250 ± 10A	
Energy <sup>1</sup>	486Wh	
Energy Density	103Wh/kg, 115Wh/l	
Weight	Approx. 4.7 ± 0.1kg (10.36 ± 0.22lbs)	
Cycle Life <sup>3</sup>	>1,500 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 (Torque 6.0-7.0N-m)	
Size	Length:	195 ± 2mm (7.76in)
	Width:	127 ± 2mm (5.08in)
	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**  
IEC 621333-2  
CB scheme (ID: FI-48789/M1)  
SGS NA listed mark (UL 2054)  
UN 38.3

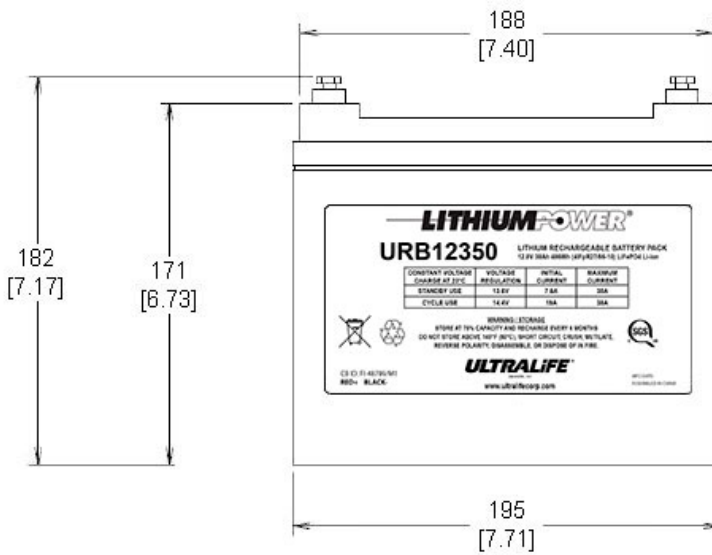
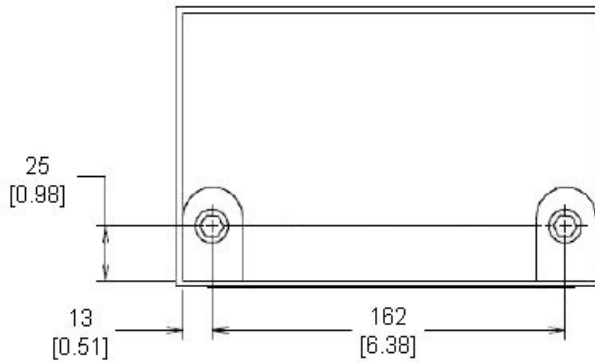
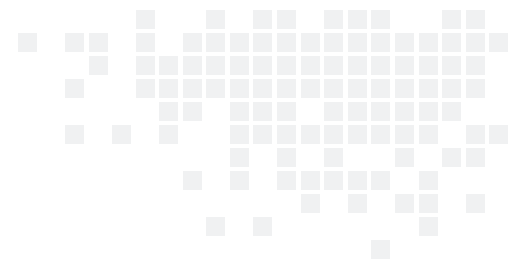
**Transportation<sup>4</sup>**  
UN 3480 Dangerous Good Class 9, Total Energy >300Wh  
UN Testing Summary - UNTS-0267

**Harmonized Tariff Schedule** 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



**LITHIUM POWER**  
**URB12350** LITHIUM RECHARGEABLE BATTERY PACK  
 12.8V 3000mAh (20hr) 18.5LWh (UL)

CONSTANT VOLTAGE	VOLTAGE	INITIAL	MAXIMUM
CHARGE RATE	REGULATION	CURRENT	CURRENT
STANDARD USE	13.8V	7.0A	30A
CYCLE USE	14.8V	10A	30A

**WARNING: STORAGE**  
 STORE AT 50% CAPACITY AND RECHARGE EVERY 6 MONTHS.  
 DO NOT STORE ABOVE 140°F (60°C). SHORT CIRCUIT, CRUSH, HEAT TREAT,  
 REVERSE POLARITY, DISASSEMBLE, OR EXPOSE TO FLAME.

**ULTRALIFE**  
 www.ultralifecorp.com

CE (E) 01 40700/001  
 8000 - BLACK

Unit: mm [in]



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