

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 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

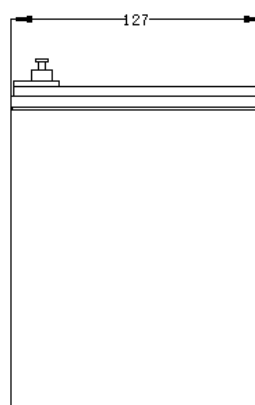
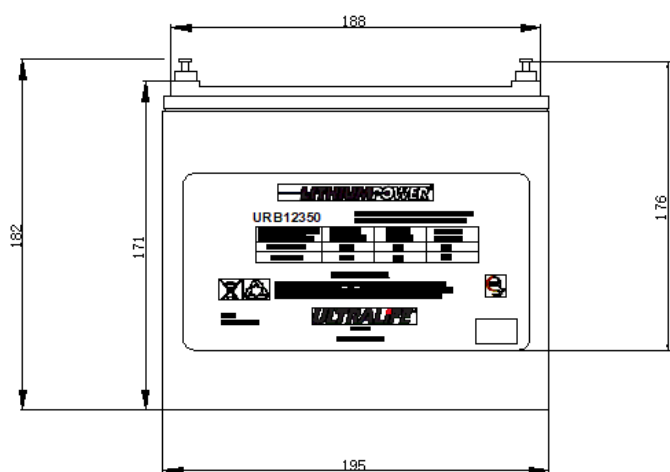
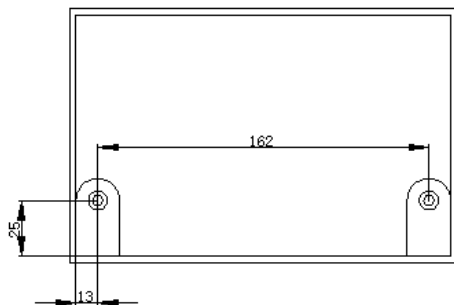
Technical Specification

Part No.	URB12350		
Chemistry	Lithium Iron Phosphate (LFP)		
IEC Designation	4IFpR27/66-10		
Average Voltage	12.8V		
Nominal Capacity ¹	38.0Ah		
Voltage Range	10.0V - 14.4V		
Max. Continuous Discharge	76.0A		
Max. Pulse Discharge ²	250 ± 10A		
Energy ¹	486Wh		
Energy Density	103Wh/kg, 115Wh/l		
Weight	Approx. 4.7 ± 0.1kg		
Cycle Life ³	>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 (Torque 6.0-7.0N-m)		
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 - P23120813801 Refer also to Safety Guide UBM-5112		
Certification	IEC 62133-2(CB ref: FI-48789/M1) SGS NA listed Mark(UL 2054) 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