

URB12550

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

- · Integrated carry handles
- · Can be properly charged using a 2 phase SLA
- · IEC61233, 2nd edition 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	11A	55A
Cycle Use	14.4V	28.5A	55A

Technical Specifications			
Part No	URB12550		
Chemistry	Lithium Iron Phosphate (LFP)		
IEC Designation	4IFR27/66-15		
Average Voltage	12.8V		
Nominal Capacity ¹	57Ah		
Voltage Range	10.0V - 14.4V		
Max. Continuous Discharge	55A		
Max. Pulse Discharge ²	250 ± 30A		
Energy ¹	729Wh		
Energy Density	97Wh/kg, 107Wh/l		
Weight	Approx. 7.5 ± 0.2kg		
Cycle Life	>1500 cycles		
Operating Temperature	-20°C to 60°C discharging		
	0°C to 45°C charging 0°C to 40°C		
Storage Temperature Internal Resistance			
	≤50mΩ		
Self-Discharge @ 23°C Memory Effect	<5% per month None		
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Exterior/Housing Terminals/Connector	Hard plastic, ABS M8 Screw Terminals		
Terminals/Connector	Length:	257 ± 3mm (10.12in)	
Size	Width:	132 ± 2mm (5.20in)	
	Height:	200 ± 3mm (7.87in)	
Communications	None		
State of Charge Indicator	None		
Protection	Overcharge:	3.90V (per cell)	
	Over Discharge: Over Current:	2.00V (per cell) 250 ± 30A (15-25ms)	
	Over Current. Over Temperature:	65 ± 5°C	
	Short Circuit:	00 1 0 0	
	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 11.0A and hold 14.4V until the current declines to 1.1A. Maximum charge rate is 55.0A. Alternatively, you may apply a maximum charge voltage of 13.6V (limiting the current to 11.0A) and hold		
		e battery in a continuous standby	
0.51	state-of-charge of betwee		
Safety	Material Safety Datasheet - MSDS00152		
Certifications	Refer also to Safety Guide UBM-5112 CB Scheme		
	ID:BE-42214		
Transportation	Class 9 International and within U.S.4 Excepted when		
Hammanina d Tariff Oak at 1	shipped by motorcar or rail within U.S.		
Harmonized Tariff Schedule	8507.60.0000		
Notes 1. Using a C/5 discharge rate at 25°C).		

- 2. Maximum pulse width of between 15ms and 25ms.
- 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



