ULTRALIFE
BATTERY & ENERGY PRODUCTS

URB12550
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 61233, 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	27.5A	55A

Technical Specifications		
Part No	URB12550	
Chemistry	Lithium Iron Phosphate (LFP)	
IEC Designation	4IFR27/66-18	
Average Voltage	12.8V	
Nominal Capacity[1]	55.8Ah	
Voltage Range	10.0V - 14.4V	
Max. Continuous Discharge	60A	
Max. Pulse Discharge[2]	250 ± 30A	
Energy[1]	714Wh	
Energy Density	91Wh/kg, 104Wh/l	
Weight	Approx. 7.85 ± 0.2kg (17.3 ± 0.44lbs)	
Cycle Life	>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	≤20mΩ	
Self-Discharge @ +23°C	<5% per month	
Memory Effect	None	
Exterior/Housing	Hard plastic, ABS	
Terminals/Connector	M8 Screw Terminals (Torque 10-11N-m)	
Size	Length: Width: Height:	256 ± 1mm (10.12in) 132 ± 1mm (5.24in) 200 ± 1mm (7.91in)
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) 250 ± 30A (15-25ms) 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 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 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: JPTUV-056352)	
Transportation[4]	UN 3480 Dangerous Good Class 9, Total Energy >300Wh UN Testing Summary - UNTS-0242	
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.

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Dimensions