

# 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 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

<b>Part No</b>	URB12550		
<b>Chemistry</b>	Lithium Iron Phosphate (LFP)		
<b>IEC Designation</b>	4IFR27/66-18		
<b>Average Voltage</b>	12.8V		
<b>Nominal Capacity<sup>1</sup></b>	55.8Ah		
<b>Voltage Range</b>	10.0V - 14.4V		
<b>Max. Continuous Discharge</b>	60A		
<b>Max. Pulse Discharge<sup>2</sup></b>	250 ± 30A		
<b>Energy<sup>1</sup></b>	714Wh		
<b>Energy Density</b>	91Wh/kg, 104Wh/l		
<b>Weight</b>	Approx. 7.85 ± 0.2kg (17.3 ± 0.44lbs)		
<b>Cycle Life</b>	>1,500 cycles		
<b>Operating Temperature</b>	-20°C to +60°C discharging 0°C to +45°C charging		
<b>Storage Temperature</b>	0°C to +40°C		
<b>Internal Resistance</b>	≤20mΩ		
<b>Self-Discharge @ +23°C</b>	<5% per month		
<b>Memory Effect</b>	None		
<b>Exterior/Housing</b>	Hard plastic, ABS		
<b>Terminals/Connector</b>	M8 Screw Terminals (Torque 10-11N-m)		
<b>Size</b>	Length:	256 ± 1mm (10.12in)	
	Width:	132 ± 1mm (5.24in)	
	Height:	200 ± 1mm (7.91in)	
<b>Communications</b>	None		
<b>State of Charge Indicator</b>	None		
<b>Protection</b>	Overcharge:	3.90V (per cell)	
	Over Discharge:	2.00V (per cell)	
	Over Current:	250 ± 30A (15-25ms)	
	Over Temperature:	65 ± 5°C	
	Short Circuit		
	Cell Imbalance		
<b>Charging</b>	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%.		
<b>Safety</b>	Material Safety Datasheet - MSDS00152 Refer also to Safety Guide UBM-5112		
<b>Certifications</b>	CB Scheme (ID: JPTUV-056352)		
<b>Transportation<sup>4</sup></b>	UN 3480 Dangerous Good Class 9, Total Energy >300Wh UN Testing Summary - UNTS-0242		
<b>Harmonized Tariff Schedule</b>	8507.60.0000		
<b>Notes</b>	<ol style="list-style-type: none"> <li>1. Using a C/5 discharge rate at +25°C.</li> <li>2. Maximum pulse width of between 15ms and 25ms.</li> <li>3. Number of consecutive C/5 rate discharges and recommended charges at 25 ± 5°C until the battery reaches 80% of initial capacity.</li> <li>4. Transportation regulations, classifications and lithium content are available on the Ultralife website.</li> </ol>		

# Dimensions

