URB12200
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, 2nd edition 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	4A	20A
Cycle Use	14.4V	10A	20A

Technical Specifications	
Part No	URB12200
Chemistry	Lithium Iron Phosphate (LFP)
IEC Designation	4IFR19/66-13
Average Voltage	12.8V
Nominal Capacity[1]	20.0Ah
Voltage Range	10.0V - 14.4V
Max. Continuous Discharge	20.0A
Max. Pulse Discharge[2]	120 ± 20A
Energy[1]	256Wh
Energy Density	90Wh/kg, 112Wh/l
Weight	Approx. 2.85 ± 0.2kg (6.28 ± 0.44lbs)
Cycle Life[3]	>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	≤50mΩ
Self-Discharge @ +23°C	<5% per month
Memory Effect	None
Exterior/Housing	Hard plastic, ABS
Terminals/Connector	M5 Screw Terminals (Torque 3.5-4.5N-m)
Size	Length: 181 ± 1mm (7.12in) Width: 76 ± 1mm (3.03in) Height: 165 ± 1mm (6.57in)
Communications	None
State of Charge Indicator	None
Protection	Overcharge: 3.90V (per cell) Over Discharge 2.00V (per cell) Over Current: 120 ± 20A (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 4.0A and hold 14.4V until the current declines to 400mA. Maximum charge rate is 20.0A. Alternatively, you may apply a maximum charge voltage of 13.6V (limiting the current to 4.0A) 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
Certification	CB Scheme (ID: FI-17955) UL 2054
Transportation[4]	UN 3480 Dangerous Good Class 9, Total Energy >100Wh, <300Wh UN Testing Summary - UNTS-0240
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

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Dimensions