URB121000
Technical Datasheet

LITHIUM POWER®

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 outgas 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 replacement
- Solar battery

Constant Voltage Charge at 23˚C	Voltage Regulation	Initial Current	Maximum Current
Standby Use	13.6V	50A	100A
Cycle Use	14.4V	50A	100A

Technical Specifications	
Part No	URB121000
Chemistry	Lithium Iron Phosphate (LFP)
IEC Designation	4IFR27/66-32
Average Voltage	12.8V
Nominal Capacity[1]	102.6Ah
Voltage Range	10.0V - 14.4V
Max. Continuous Discharge	80A
Max. Pulse Discharge[2]	250 ± 30A
Energy[1]	1313Wh
Energy Density	97Wh/kg, 108Wh/l
Weight	Approx. 13.5 ± 0.1kg (29.76 ± 0.22lbs)
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	≤20mΩ
Self-Discharge @ +23°C	<5% per month
Memory Effect	None
Exterior/Housing	Hard plastic, ABS
Terminals/Connector	M8 Screw Terminals (Recommended Torque 10-11N-m)
Size	Length: 340 ± 2mm (13.46in) Width: 170 ± 2mm (6.81in) Height: 210 ± 2mm (8.35in)
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 20.0A and hold 14.4V until the current declines to 2.0A. Maximum charge rate is 100.0A. Alternatively, you may apply a maximum charge voltage of 13.6V (limiting the current to 20.0A) 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	IEC 62619:2017 CB Scheme (ID: JPTUV-140767)
Transportation[4]	UN 3480 Dangerous Good Class 9, Total Energy >300Wh UN Testing Summary - UNTS-0243
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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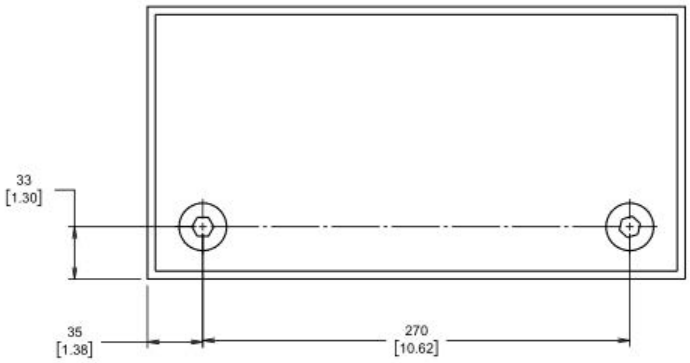
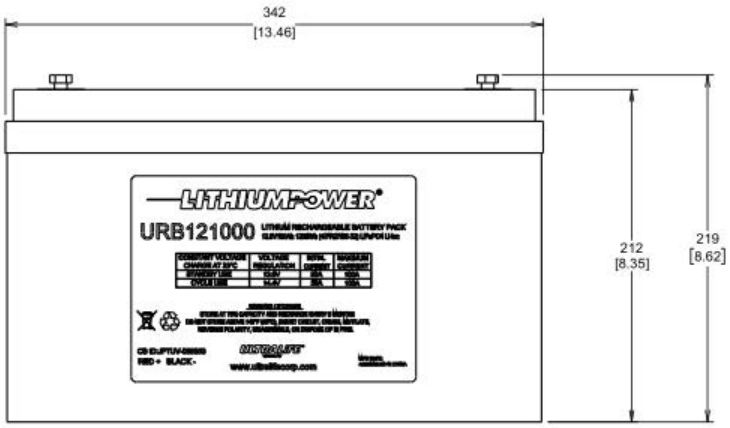
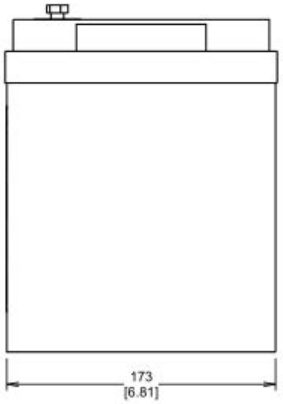
Dimensions







Unit: mm [in]

