URB24200
Preliminary 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 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 62133-2 compliant

Applications

- Scooters / wheelchairs
- UPS battery replacement
- Solar power battery
- AGV

Constant Voltage Charge at 23°C	Voltage Regulation	Initial Current	Maximum Current
Standby Use	27.2V	4A	60A
Cycle Use	28.8V	10A	60A

Technical Specifications		
Part No.	URB24200	
Chemistry	Lithium Iron Phosphate (LFP)	
IEC Designation	8IFpR27/66-8	
Average Voltage	25.6V	
Nominal Capacity[1]	20.0Ah	
Voltage Range	18.0V - 28.8V	
Max. Continuous Discharge	60.0A	
Max. Pulse Discharge	250 ± 30A	
Energy[1]	512Wh	
Energy Density	66Wh/Kg, 111Wh/L	
Weight	Approx. 7.8 ± 0.3Kg (17.2 ± 0.7lbs)	
Cycle Life[2]	>2,500 cycles	
Operating Temperature	-20°C to +60°C discharging; 0°C to +45°C charging	
Storage Temperature	0°C to +40°C	
Internal Resistance	≤30mΩ	
Self-Discharge @ +23°C	<5% per month	
Memory Effect	None	
Exterior/Housing	Metal	
Terminals/Connector	M6 screw terminals	
Size	Length: Width: Height:	195 ± 2mm (7.68in) 132 ± 2mm (5.20in) 180 ± 2mm (7.09in)
Communications	None	
State of Charge Indicator	None	
Protection	Overcharge: Over Discharge: Over Current: Over Temperature: Short Circuit; Cell Imbalance	3.75V (per cell) 2.00V (per cell) 250 ± 30A (10-100ms) 65 ± 5°C
Charging	Connect the battery to a DC power source using correct polarity and apply a maximum voltage of 28.8V. Limit the current to the recommended rate of 10.0A and hold 28.8V until the current declines to 400mA. Maximum charge rate is 60.0A. Alternatively, you may apply a maximum charge voltage of 27.2V (limiting the current to 10A) and hold indefinitely to maintain the battery in a continuous standby state-of-charge of between 70-90%.	
Safety	Material Safety Datasheet - MSDS00240 Refer also to Safety Guide UBM-5112	
Certifications	UN 38.3 (transportation); CB Scheme (ID: DK-155064-UL)	
Transportation	UN 3480 Dangerous Goods Class 9, Total Energy >300Wh If packed in or with equipment (UN 3481) contact Ultralife for guidance or other questions. UNTS: TBD	
Harmonized Tariff Schedule	8507.60.0020	

Notes

1. Using a C/5 discharge rate at +25°C.
2. Maximum pulse width of between 10ms and 100ms.
3. Number of consecutive C/5 rate discharges and recommended charges at 25°±5°C until the battery reaches 80% of initial capacity.

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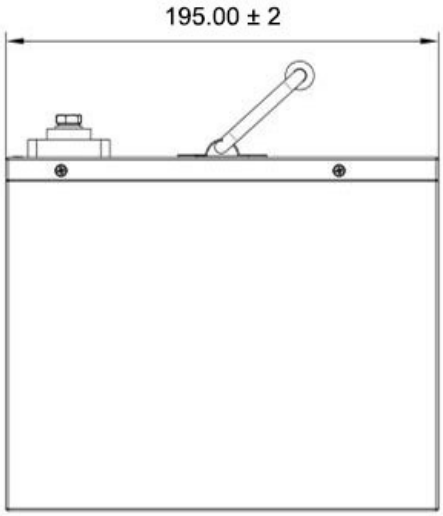
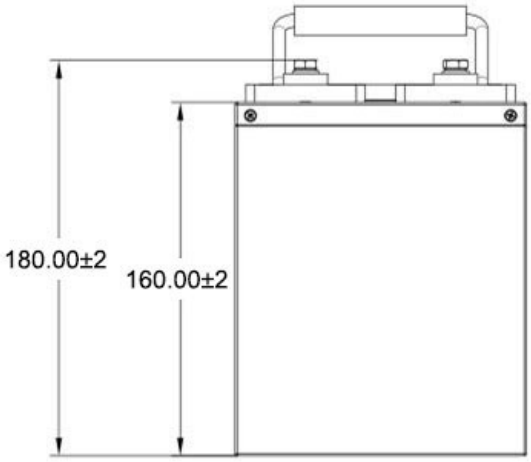
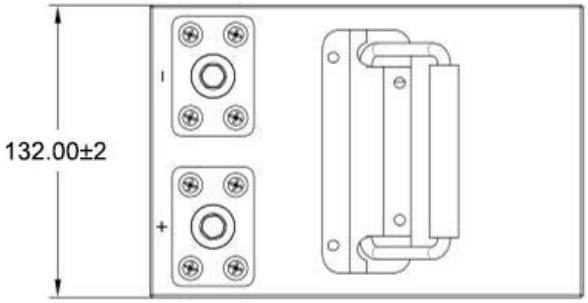
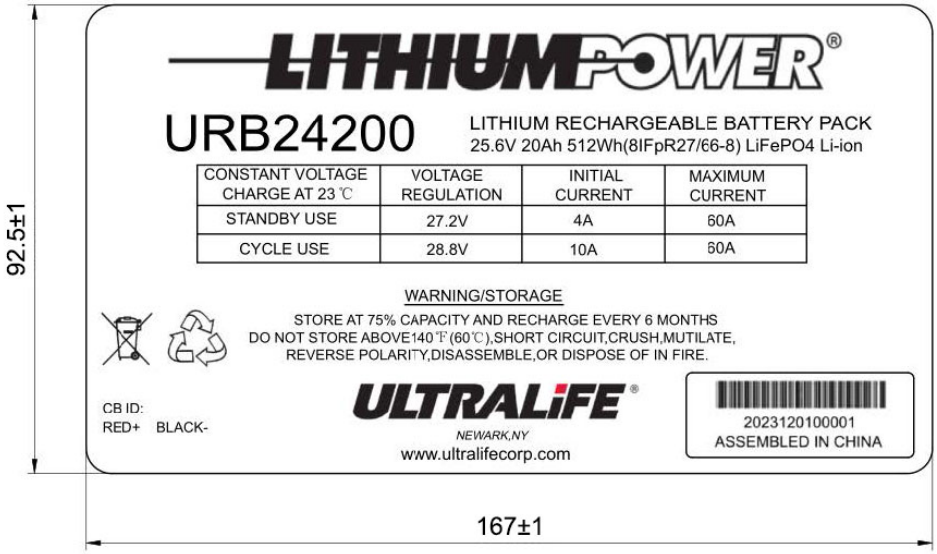
Dimensions







Unit: mm



Barcode Detail:
(Example = 2023120100001)
20231201 = YYMMDD Battery Pack Assembly Date
00001 = Battery Pack Serial Number