

# UBBL20

## Technical Datasheet



Technical Specifications	
Part No.	UBBL20-FL or UBBL20-C1
Voltage Range	6.0 to 8.4V
Average Voltage	7.2V
Capacity	2.4Ah @ C/5 Rate @ 23°C±2°C
Max. Discharge	2.5A continuous
PTC	Rated for 2.6A Hold Current @ 20°C
Energy	17.3Wh
Energy Density	180Wh/kg, 450Wh/l
Weight	~100g
Cycle Life	> 300 cycles @ C/5 to 80% of initial capacity
Memory	No Memory Effect
Operating Temperature	-20°C to 60°C
Storage Temperature	-20°C to 50°C
Self-Discharge	< 10% per month
Exterior/Housing	PVC Shrink Wrap
Terminals/Connector	FL: 22 AWG wire leads Red (+), Black (-) C1: JST Connector VHR-2N
Safety	Material Safety Datasheet - MSDS041 Safety Guide UBM-5112
Certifications	IEC 62133 2nd edition CB ID: DK-54643-UL
Transportation	Excepted from regulations for packages with gross mass of 10kg or less (see note.)
Protection Circuit Module and Fuses	Over Voltage Limit: 4.35±0.025V (per cell) Under Voltage Limit: 2.30±0.1V (per cell) Over Discharge Current Limit: 3.0 - 5.5A
Charging	Recommended charge rate is 466mA to 8.4V in a temperature range of 0°C to 45°C. Hold at 8.4V until current declines to 50mA. Maximum charge rate is 1.63A @ 23°C±2°C.
Note	A complete description of transportation regulations, lithium weights and transportation classifications is available on the Ultralife website.

### Features

- Off-the-shelf convenience
- Wire or connector terminals
- Full circuit protection
- Meets all UN transportation testing
- Long cycle life
- High energy density
- Wide operating temperature range
- Lightweight
- No memory effect

### Applications

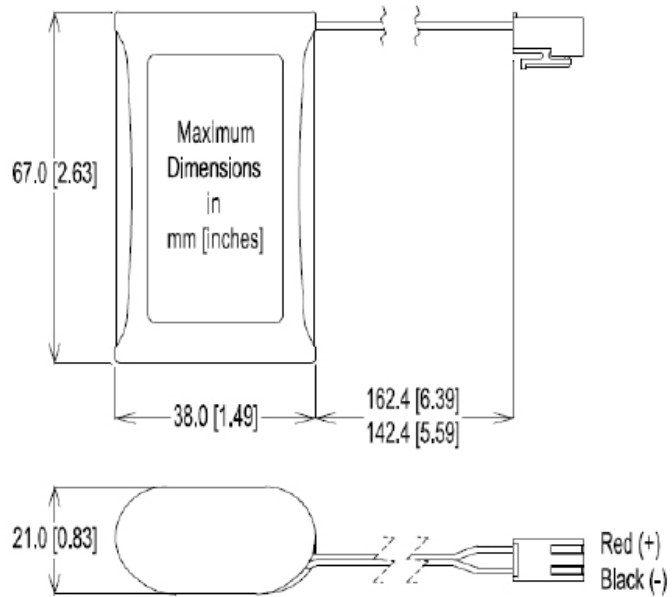
- Portable electronics
- Hand-held devices
- Medical equipment
- Back-up power

### Accessories Optional

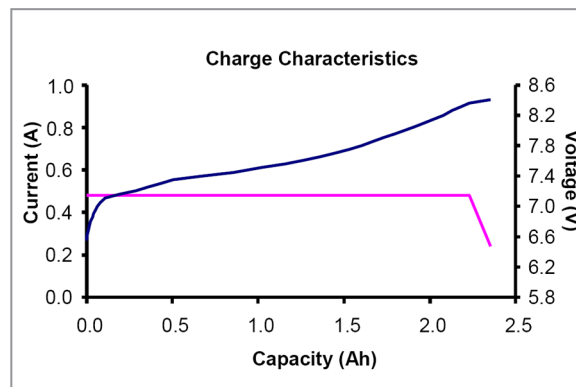
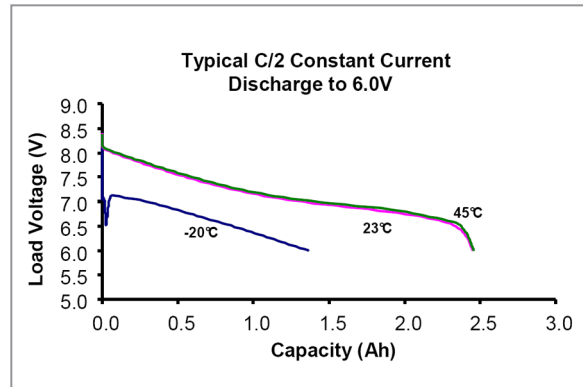
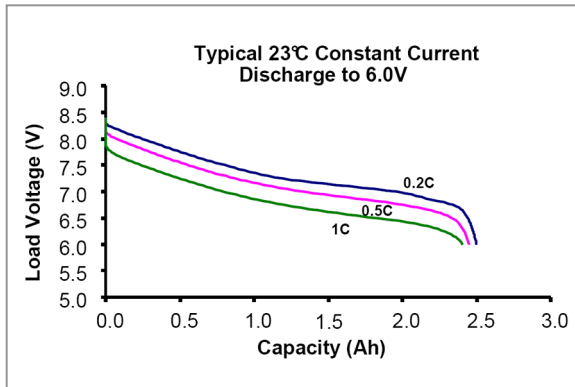
- UCH0037-S: Wall Wart charger (U.S.)
- UCH0037-I: Wall Wart charger (International)
- UCA0102-01: Interface cable for UBBL20-FL
- UCA0102-02: Interface cable for UBBL20-C1

# Dimensions

UBBL20-FL: Wire Leads  
 UBBL20-C1: Connector



# Performance Graphs



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