# UBBL25
## Technical Datasheet

**ULTRALIFE®**
BATTERY & ENERGY PRODUCTS

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

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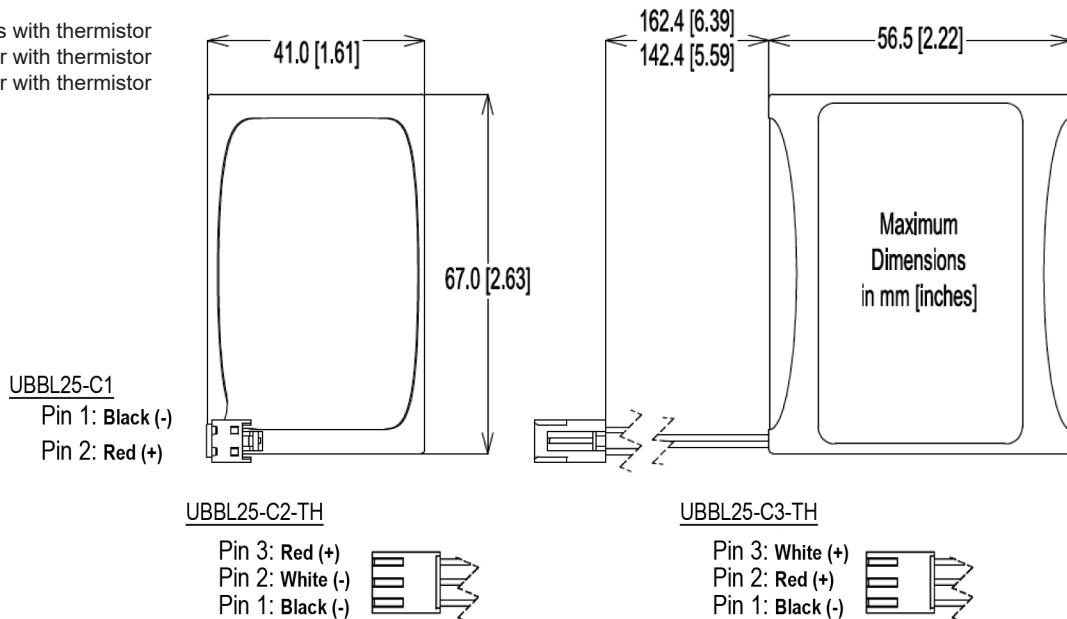- Hand-held devices
- Medical equipment
- Back-up power

## Accessories Optional
- UCH0038-S: Wall Wart charger (U.S.)
- UCH0038-I: Wall Wart charger (International)
- UCA0102-01: Interface cable for UBBL25-FL
- UCA0102-02: Interface cable for UBBL25-C1

| Technical Specifications | |
|---|---|
| Part No. | UBBL25-FL or UBBL25-C1<br>UBBL25-FL-TH or UBBL25-C2-TH<br>UBBL-25-C3-TH |
| Voltage Range | 7.5 to 12.6V |
| Average Voltage | 10.8V |
| Capacity | 5.7Ah @ C/5 Rate @ 23°C±2°C |
| Max. Discharge | 3.5A continuous |
| PTC | Rated for 3.8A Hold Current @ 20°C |
| Energy | 61.6Wh |
| Energy Density | 218Wh/Kg, 513Wh/l |
| Weight | ~295g |
| Cycle Life | > 300 cycles @ C/5 to 80% of inital 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 (-)<br>C1: JST Connector VHR-2N<br>C2: Molex Connector 22-01-3037<br>C3: Molex Connector 22-01-3037 Alternate Pin-out |
| Safety | Material Safety Datasheet - MSDS041<br>Saftety Guide UBI-5112 |
| Transportation | UN Testing Summary - UNTS-0278<br>Excepted from regulations for packages with gross mass of 10kg or less (consult Ultralife) |
| Protection Circuit Module and Fuses | Over Voltage Limit: 4.35±0.025V (per cell)<br>Under Voltage Limit: 2.30±0.1V (per cell)<br>Over Discharge Current Limit: 3.5 - 4.6A |
| Charging | Recommended charge rate is 932mA to 12.6V in a temperature range of 0°C to 45°C. Hold at 12.6V until current declines to 100mA. Maximum charge rate is 3.2A @ 23°C±2°C. |

# Dimensions

UBBL25-FL: wire leads
UBBL25-C1: connector
UBBL25-FL-TH: wire leads with thermistor
UBBL25-C2-TH: connector with thermistor
UBBL25-C3-TH: connector with thermistor

41.0 [1.61]

67.0 [2.63]

162.4 [6.39]
142.4 [5.59]

56.5 [2.22]

Maximum
Dimensions
in mm [inches]

UBBL25-C1
Pin 1: **Black (-)**
Pin 2: **Red (+)**

UBBL25-C2-TH
Pin 3: **Red (+)**
Pin 2: **White (-)**
Pin 1: **Black (-)**

UBBL25-C3-TH
Pin 3: **White (+)**
Pin 2: **Red (+)**
Pin 1: **Black (-)**

# Performance Graphs



Typical 23°C Constant Current Discharge to 12.0V

C/5
C/2
0.7C



Typical C/2 Constant Current Discharge to 9.0V

-20°C
23°C
45°C



Charge Characteristics