

# UBBL20

## Technical Datasheet

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| Technical Specifications            |                                                                                                                                                                                 |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part No.                            | UBBL20-FL, UBBL20-C1 or UBBL20-C2                                                                                                                                               |
| Voltage Range                       | 6.0 to 8.4V                                                                                                                                                                     |
| Average Voltage                     | 7.2V                                                                                                                                                                            |
| Capacity                            | 2.75Ah @ C/5 Rate @ 23°C±2°C                                                                                                                                                    |
| Max. Discharge                      | 2.5A continuous                                                                                                                                                                 |
| PTC                                 | Rated for 2.6A Hold Current @ +20°C                                                                                                                                             |
| Energy                              | 19.8Wh                                                                                                                                                                          |
| 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 (-)<br>C1: JST Connector VHR-2N<br>C2: Molex Microfit 43030-0008                                                                           |
| Safety                              | Material Safety Datasheet - MSDS041<br>Safety Guide UBM-5112                                                                                                                    |
| Certifications                      | IEC 62133-2:2017 Certified<br>CB ID: BE-42320                                                                                                                                   |
| Transportation                      | UN 3480 Dangerous Goods Class 9,<br>Total Energy <100Wh<br>If packed in or with equipment (UN 3481),<br>contact Ultralife for guidance or<br>other questions.                   |
| 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: 3.0 - 5.5A                                             |
| Charging                            | Recommended charge rate is 466mA to 8.4V in a<br>temperature range of 0°C to +45°C. Hold at 8.4V<br>until current declines to 50mA. Maximum charge<br>rate is 1.63A @ 23°C±2°C. |

### 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

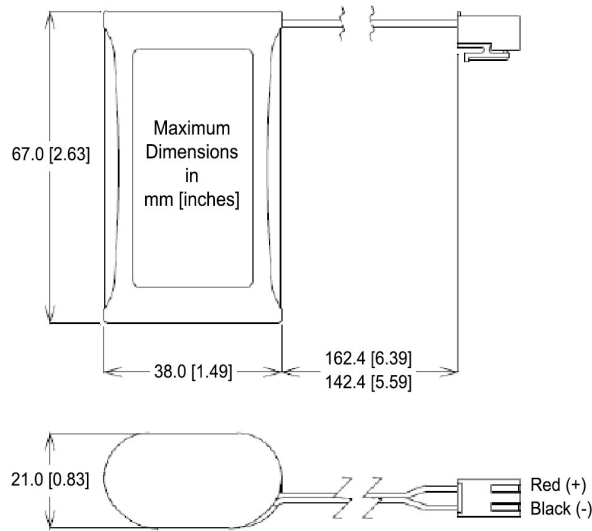
- Portable electronics
- Hand-held devices
- Medical equipment
- Back-up power

### Accessories Optional

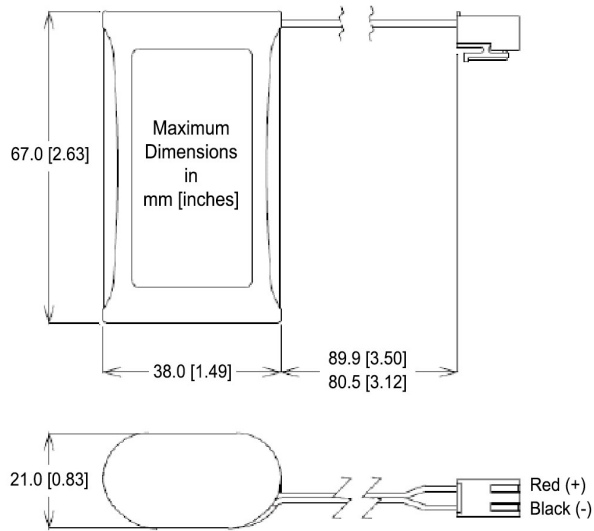
- UCH0037-S:  
Wall Wart charger (U.S.)
- UCH0037-I:  
Wall Wart charger (International)
- UCA0102-01:  
Interface cable for UBBL20-FL
- UCA0102-02:  
Interface cable for UBBL20-C1

Dimensions

UBBL20-FL: Wire Leads  
UBBL20-C1: Connector



UBBL20-C2: Molex Microfit



Performance Graphs

