**UBBL19 Technical Datasheet**

**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**
- UCH0036-S: Wall Wart charger (U.S.)
- UCH0036-I: Wall Wart charger (International)
- UCA0102-01: Interface cable for UBBL19-FL
- UCA0102-02: Interface cable for UBBL19-C1

### Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part No.</strong></td>
<td>UBBL19-FL or UBBL19-C1</td>
</tr>
<tr>
<td><strong>Voltage Range</strong></td>
<td>3.0 to 4.2V</td>
</tr>
<tr>
<td><strong>Average Voltage</strong></td>
<td>3.6V</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>2.4Ah @ C/5 Rate @ 23°C±2°C</td>
</tr>
<tr>
<td><strong>Max. Discharge</strong></td>
<td>2.5A continuous</td>
</tr>
<tr>
<td><strong>PTC</strong></td>
<td>Rated for 2.6A hold current @ 20°C</td>
</tr>
<tr>
<td><strong>Energy</strong></td>
<td>8.6Wh</td>
</tr>
<tr>
<td><strong>Energy Density</strong></td>
<td>172Wh/kg, 430Wh/l</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>~52g</td>
</tr>
<tr>
<td><strong>Cycle Life</strong></td>
<td>&gt; 300 cycles @ C/5 to 80% of initial capacity</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>No Memory Effect</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-20°C to 60°C</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-20°C to 50°C</td>
</tr>
<tr>
<td><strong>Self-Discharge</strong></td>
<td>&lt; 10% per month</td>
</tr>
<tr>
<td><strong>Exterior/Housing</strong></td>
<td>PVC Shrink Wrap</td>
</tr>
</tbody>
</table>
| **Terminals/Connector**| FL: 22 AWG wire leads Red (+), Black (-)  
                               C1: JST Connector VHR-2N                                             |
| **Safety**             | Material Safety Datasheet - MSDS041  
                               Safety Guide UBI-5112                                                |
| **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: 2.50±0.1V (per cell)  
                                                                     Over Discharge Current Limit: 3.4 - 4.5A |
| **Charging**           | Recommended charge rate is 466mA to 4.2V in a temperature range of 0°C to 45°C.  
                                                                     Hold at 4.2V 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.
Dimensions

UBBL19-FL: Wire Leads
UBBL19-C1: Connector

Performance Graphs

Typical 23°C Constant Current Discharge to 3.0V

Typical C/2 Constant Current Discharge to 3.0V

Charge Characteristics
Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Ultralife:
UBBL19-FL  UBBL19-C1