

UBBL72: Rechargeable Conformal Battery

Preliminary Technical Datasheet



| Technical Specifications | |
|----------------------------|--|
| Part No | UBBL72 |
| Model No | BB-2525 |
| Voltage Range | 10.0 to 16.8V |
| Nominal Voltage | 14.8V |
| Nominal Capacity | 10.75Ah |
| Max. Continuous Discharge | 7.0A @ +23°C |
| Max. Pulse Discharge | 7.6A for 6 seconds |
| Energy | 159Wh |
| Weight | 1.18kg (2.6lbs) |
| Dimensions | 7.63in (Length) x 8.61in (Width) x 0.68in (Thickness) |
| Cycle Life | >300 cycles |
| Memory | No Memory Effect |
| Operating Temperature | -30°C to +70°C discharge, -20°C to +50°C charge |
| Storage Temperature | -32°C to +71°C |
| Self-Discharge Rate | <2.5% of full capacity per month |
| Battery Storage Life | >3 years when fully charged |
| Exterior/Housing | Thermal Plastic Urethane - TEXIN 260D-L2878 |
| Color | Tan 686A |
| Terminals/Connector | ITT Cannon Net Warrior PN: MKJ4C2-155900-126 USB-A - Discharge only |
| Communications | Physical Layer: SMBus v1.1 Protocol: SBD v1.1 compliant |
| State-of-Charge Indicator | Push Button Activated Digital Display |
| Protection | Over Charge: 17.2V for 2s Over Current: 7.6A for 6s, 8.5A for 3s, 10A for 71ms Short Circuit: 13.3A for 427us Over Voltage: 60V Under Voltage: 10V for 2s Thermal Cutoff: 70C for 2s; -35C for 2s |
| Charging | Recommended charge rate is 7A to 16.8V in a temperature range of 0°C to +45°C. Hold at 16.8V until current declines to 180mA. Maximum charge rate is 7.5A @ 23±2°C. |
| Safety | |
| Certifications | Designed to meet MIL-PERF-32383/4X |
| Transportation | UN 3480 Dangerous Goods Class 9, Total Energy >100Wh, <300Wh If packed in or with equipment (UN 3481), contact Ultralife for guidance or other questions. UN Testing Summary - UNTS-0272 |
| Harmonized Tariff Schedule | |

Features

- Wearable and form-fitting
- High energy density
- Lightweight, rugged, and thin
- Easily concealed
- Integrated digital display
- Robust internal protection circuitry
- Designed to meet EMI compliance per MIL-STD-461E
- Designed to meet MIL-STD-810
- USB-A connector for charging devices
- Designed for IP67 rating

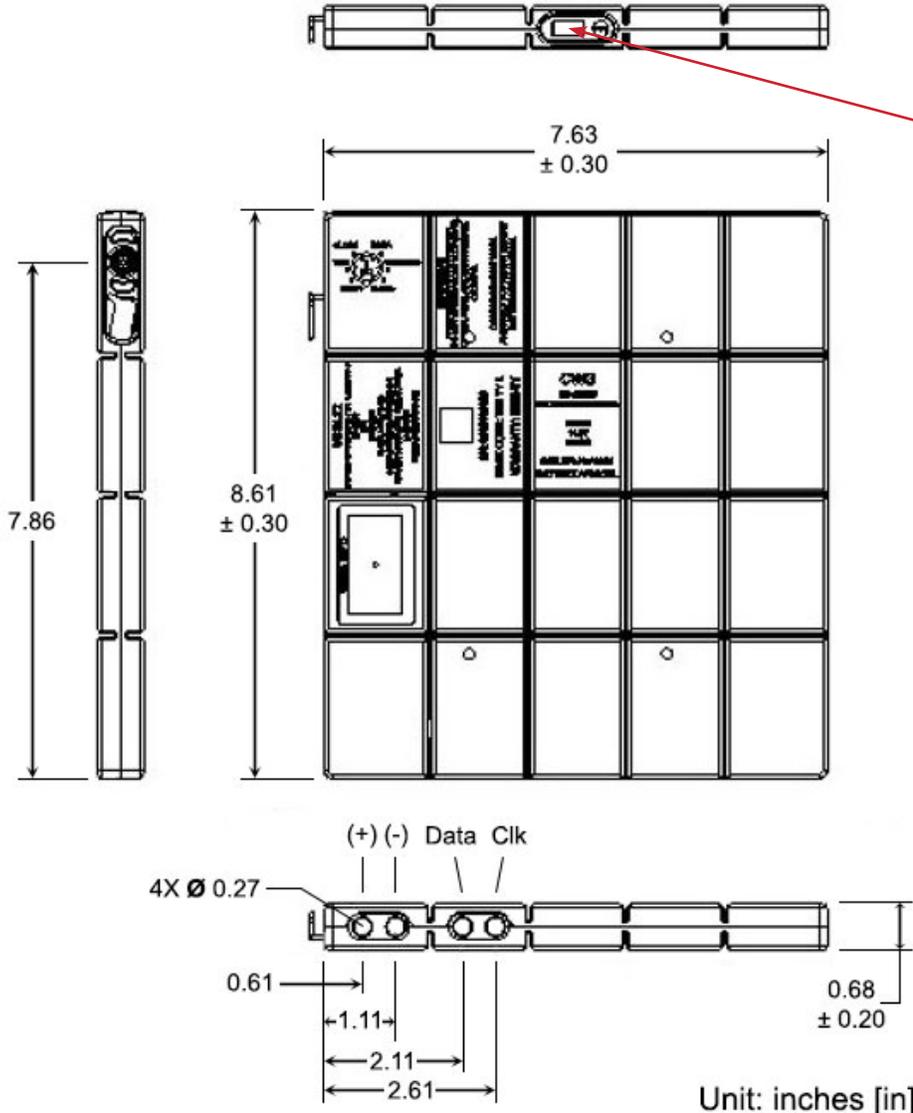
Applications

- Rugged, portable electronics where mobility is critical
- Man-wearable communications devices

Optional Accessories

- CH0015: Commercial desktop charger
- CH0008: Soldier-based charger kit
- CA0009: Flying lead cable, non-shielded
- CA0022: Flying lead cable, shielded

Dimensions



Digital Display

- When actuator is pressed screen will display
 - SOC (State of Charge)
- Subsequent pressing of actuator will display
 - SOH (State of Health)
 - RTTE (Run Time Till Empty)
 - CTFE (Charge Time To Full)
 - BCC (Battery Cycle Count)
- The display will remain illuminated for 3 seconds
- Hold actuator for 5 to 7 seconds to flip orientation of display
- Hold actuator for 10 seconds to enter blackout mode
 - Hold for 10 seconds again to exit blackout mode
- If battery has a fault, upon pressing actuator a fault code will display for 3 seconds before going to normal operational mode.

Pinouts:

