UBBL72: Rechargeable Conformal Battery

Preliminary Technical Datasheet

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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

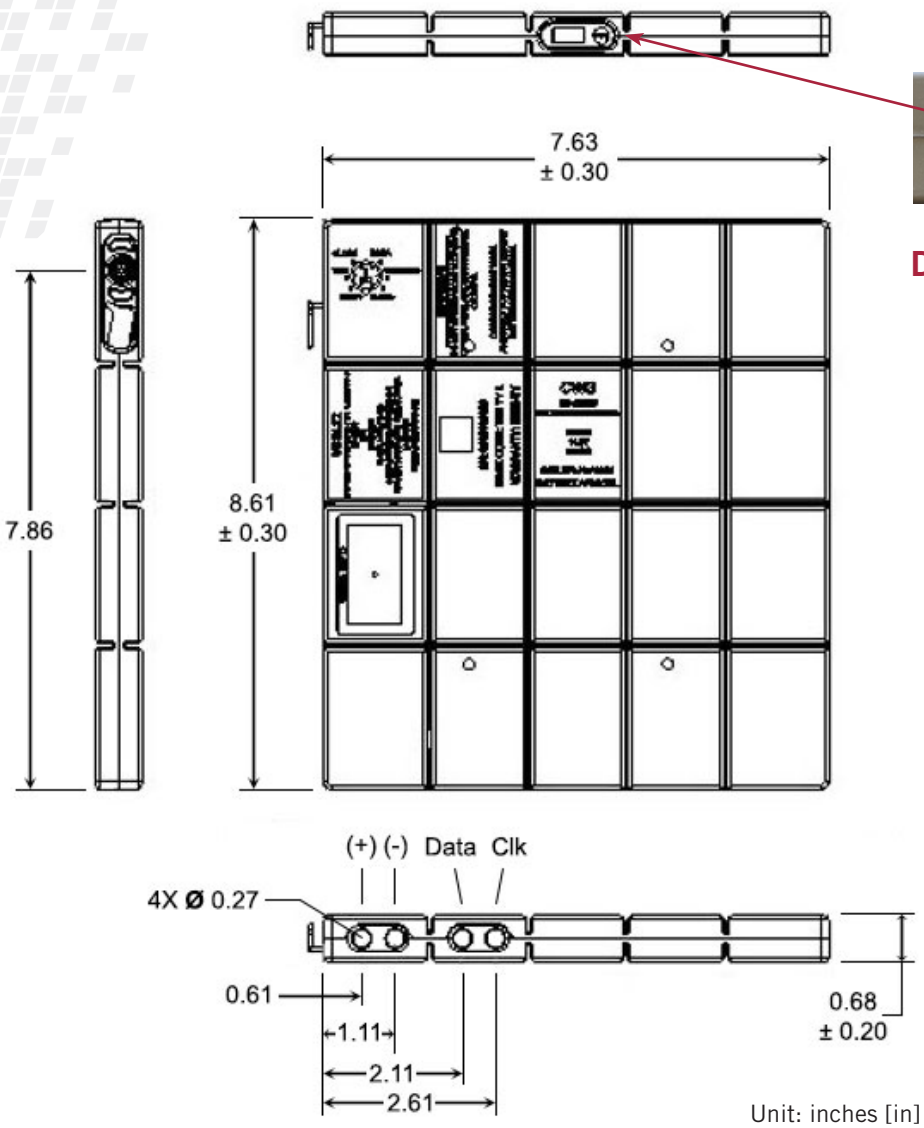
Optional Accessories

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

Technical Specifications	
Part No	UBBL72
Model No	BB-2525
NSN	6140-01-737-5987
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	Material Safety Datasheet - MSDS00163
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	

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Dimensions



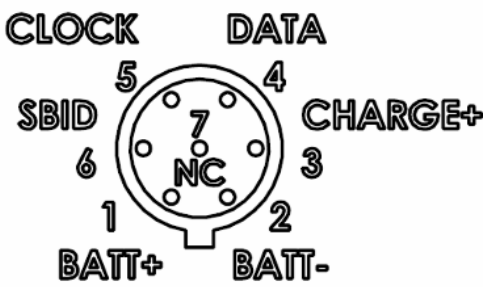
Unit: inches [in]



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)
  - CTTF (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:



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