

UBI-2590

Technical Datasheet



| Technical Specifications | |
|---|---|
| Part No. | UBBL02-01 |
| NSN | 6140-01-553-3527 |
| Voltage Range | 30V Mode: 20.0 to 33.6V 15V Mode: 10.0 to 16.8V |
| Average Voltage | 30V Mode: 28.8V 15V Mode: 14.4V |
| Capacity | Nominal ¹ : 30V mode: 8.7Ah 15V mode: 17.4Ah Minimal ¹ : 30V mode: 8.2Ah 15V mode: 16.5Ah |
| Max. Continuous Discharge | 30V Mode: 10.0A 15V Mode: 20.0A |
| Max. Pulse Discharge² | 30V Mode: 18.0A 15V Mode: 36.0A |
| Energy¹ | 250Wh |
| Energy Density | 190Wh/kg, 296Wh/l |
| Weight | 1340g, 2.95lbs |
| Cycle Life³ | >300 cycles |
| Operating Temperature | -32°C to 60°C discharging -20°C to 50°C charging |
| Storage Temperature | -20°C to 50°C |
| Self-Discharge @ 23°C | <10% per month |
| Exterior/Housing | Hard plastic (Noryl N190X-701) |
| Color | Standard color is Desert Tan. Available in black by phone order only. |
| Terminals/Connector | Connector SC-C-179495 |
| Communications | None |
| State of Charge Indicator | 5-segment LCD display (both sides) |
| Protection | Over Voltage: 4.30V (per cell) Under Voltage: 2.40V (per cell) Transient Currents: 23.0A > 15ms 30.0A > 305us Short Circuit Overcharge Protection: Up to 40V Thermal Cutoff Device: Activates 70±5°C Resets 50±5°C Thermal Fuse: Activates 93±5°C |
| Charging | Connect each side of the battery to a DC power source using correct polarity and apply a maximum voltage of 16.8V. Limit the current to the recommended rate of 3.0A and hold to 16.8V until the current declines to 300mA. Maximum charge rate is 4.8A. |
| Safety | Material Safety Datasheet - MSDS041 Refer also to Safety Guide UBM-5112 |
| Certifications | Designed to meet MIL-PRF-32383 IEC 62133:2012 |
| Transportation | Class 9 International and within U.S. ⁴ unless shipped by motorcar or rail within U.S. |
| Harmonized Tariff Schedule | 8507.60.0000 |

Notes

- Using a C/5 discharge rate at 25°C.
- Load has a pulse width of 5 seconds with a total period of 30 seconds.
- Number of consecutive 2A rate discharges while in 30V mode and recommended charges at 25±5°C until the battery reaches 80% of initial capacity.
- Transportation regulations, classifications and lithium content are available on the Ultralife website.

Features

- Flexible dual mode output voltage
- Accurate state-of-charge display for each side of the battery
- Rugged, military tough case construction can handle severe environments
- High energy density solution in the Ultralife UBI-2590 family

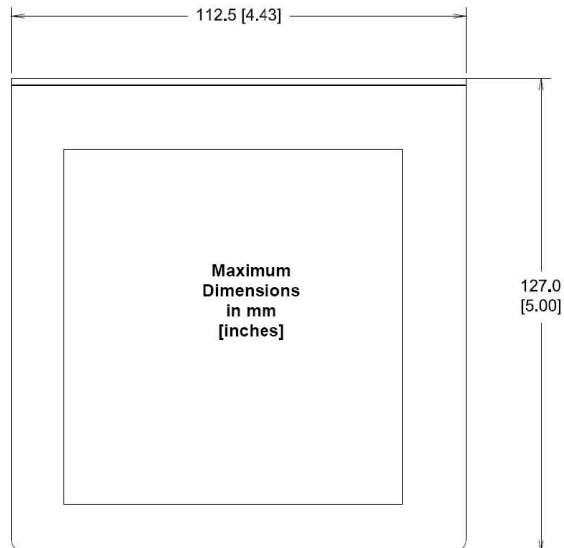
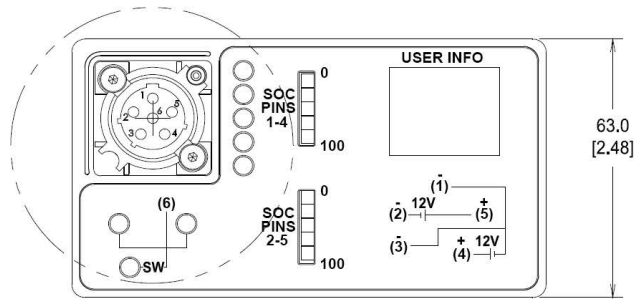
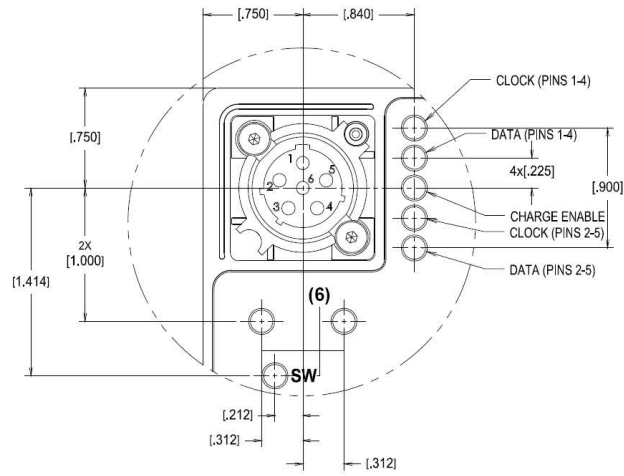
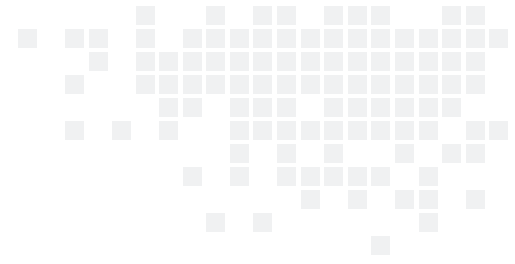
Applications

- Rugged, portable electronics
- Robotics / AUVs / UUVs
- Military communication devices
- AN/PRC-117G, AN/PRC-117F, AN/PRC-119, AN/PSC-5D

Optional Accessories

- CA0003: Vehicle Adapter
- CA0006: 15/30V, 2 Conductor Cable
- CA0007: 15/30V 2 Conductor Cable
- CA0008: 15/30V, 4 Conductor Cable
- CH0002: COTS Desktop Charger
- MRC135A: Single Unit Solar Charger
- MRC-143A: 3-Unit Solar Charger
- UCA0039: Shielded Smart Cable
- UCA0114: Low Profile Smart Cable
- UCH0053: 6-bay Charger
- UCH0054: 2-bay Charger
- UCH0056: Smart Desktop Charger
- UKT0011: Portable Battery System

Dimensions



Performance Graphs

