

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 62133-2(2017) CB scheme (ID: BE-39562)
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-0031A
Harmonized Tariff Schedule	8507.60.0000

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

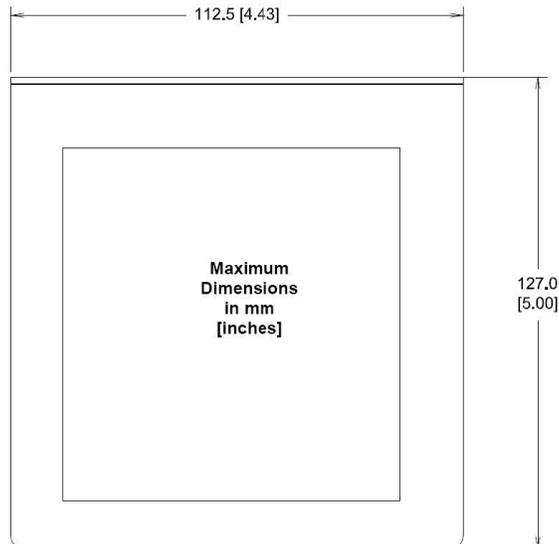
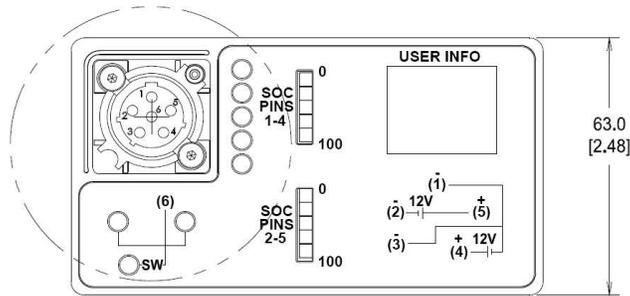
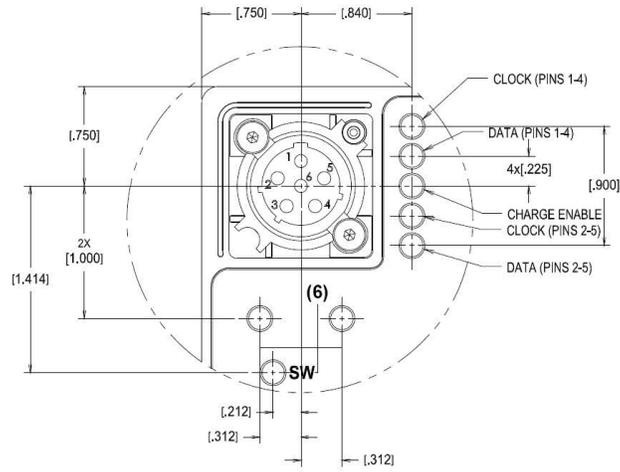
Optional Accessories

- 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

Notes

1. Using a C/5 discharge rate at +25°C.
2. Load has a pulse width of 5 seconds with a total period of 30 seconds.
3. 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.

Dimensions



Performance Graphs

