

UBI-2590 / HC SMBus

Technical Datasheet



Features

- Rugged, military tough case construction
- SmartCircuit® Technology - Implements SMBus v1.1 smart battery technology
- Flexible output voltage
- State-of-Charge display
- High energy density
- High capacity version of UBI-2590 SMBus (UBBL10)

Applications

- Rugged, portable electronics
- Robotics / AUVs / UUVs
- Military communication devices

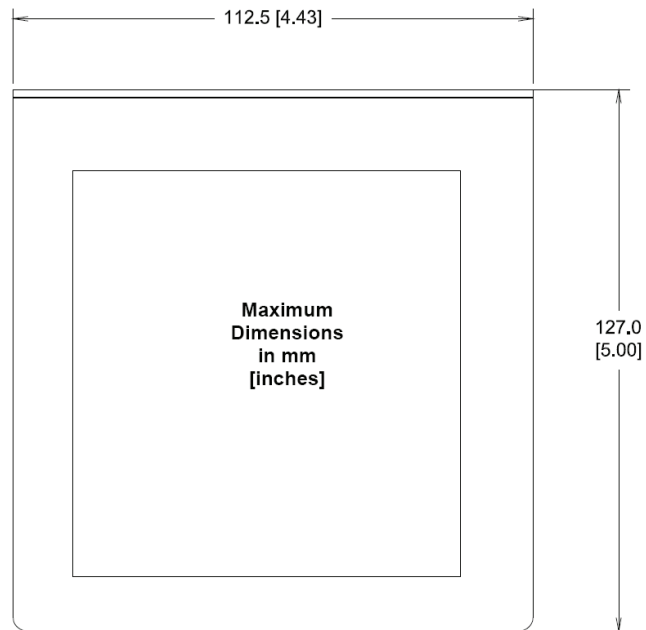
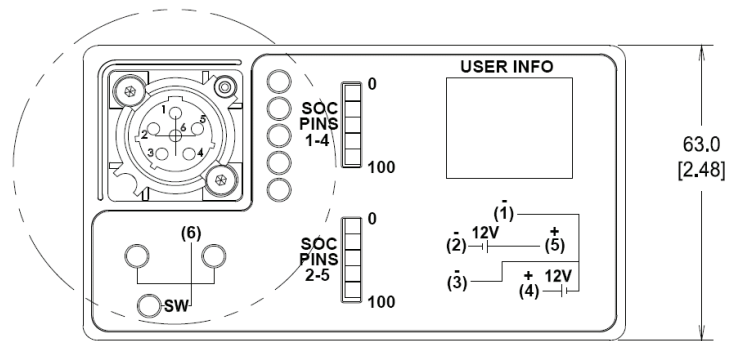
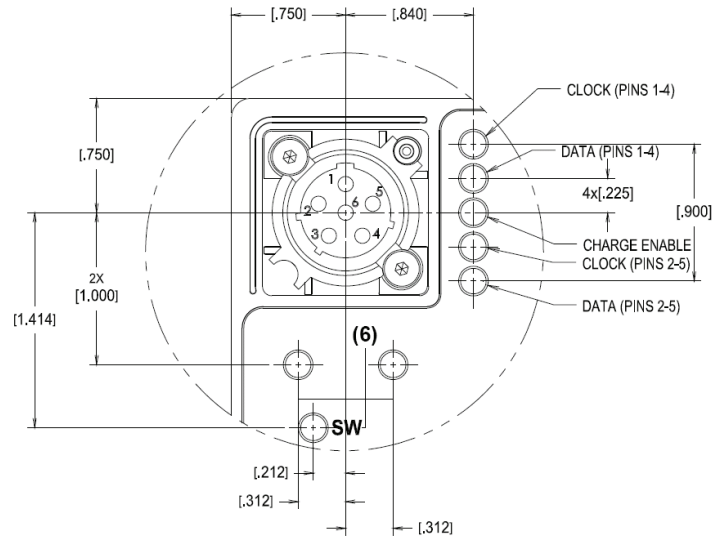
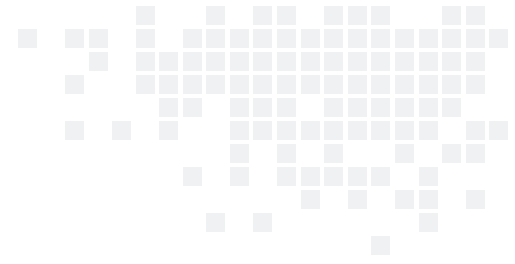
Optional Accessories

- CH0002: COTS Desktop Charger
- CH0003 or MRC-86: 6-bay Charger
- CH0004 or MRC-85: 2-bay Charger
- MRC-88: 5-bay Charger
- MRC135A: Single Unit Solar Charger
- MRC-143A: 3-Unit Solar Charger
- UKT0011: Portable Battery System
- CA0002: 4 Conductor Cable
- CA0003: Vehicle Adapter
- CA0006: 24V, 2 Conductor Cable
- CA0007: 12V, 2 Conductor Cable
- CA0008: 12/24V, 4 Conductor Cable
- UCA0039: Shielded Smart Cable

Technical Specifications

| | |
|----------------------------------|--|
| Part No. | UBBL13 |
| NSN | 6140-01-611-0192 |
| Voltage Range | 30V Mode: 24.0 to 33.6V 15V Mode: 12.0 to 16.8V |
| Average Voltage | 30V Mode: 28.8V 15V Mode: 14.4V |
| Capacity | 30V Mode: 8.7Ah @ 0.5A @ 23°C 15V Mode: 17.4Ah @ 1.0A @ 23°C |
| Max. Discharge | 30V Mode: 6.0A continuous 15V Mode: 12.0A continuous |
| Max. Pulse Discharge | 30V Mode: 18A for 5 seconds 15V Mode: 36A for 5 seconds |
| Energy | 250Wh |
| Energy Density | 186Wh/kg, 278Wh/l |
| Weight | 1340g |
| Cycle Life | > 300 cycles @ C/5 to 80% of initial capacity @ 100% depth of discharge |
| Memory | No Memory Effect |
| Operating Temperature | -32°C to 60°C |
| Storage Temperature | -32°C to 60°C |
| Self-Discharge | < 5% per month |
| Exterior/Housing | Hard plastic, black (Noryl N190X-701) |
| Terminals/Connector | Connector SC-C-179495 |
| Communications | SMBus v1.1 communication protocol SBD v1.0 data set support |
| State of Charge Indicator | LCD Displays, one for each section - absolute capacity based on design capacity |
| Safety | Material Safety Datasheet - MSDS041 Refer also to Safety Guide UBM-5112 |
| Transportation | Class 9 International and within U.S. unless shipped by motorcar or rail within U.S. (see note) |
| Harmonized Tariff Code | 8507.80.0000 |
| Protection | Over Voltage Limit: 4.30V (per cell) Under Voltage Limit: 2.40V (per cell) Over Current Protection: 19.0A Resettable Fuse: Activates @ 70°±5°C Re-sets @ 55°±5°C One-Time Thermal Fuse: Activates @ 91°±4°C |
| Charging | Recommended charge rate is 1.6A to max voltage of 16.8V in a temperature range of 0°C to 45°C. Hold at 16.8V until current declines to 300mA. Max charge rate is 3.0A. |
| Note | A complete description of transportation regulations, lithium weights and transportation classifications is available on the Ultralife website. |

Dimensions



Performance Graphs

