

UBI-2590 LE SMBus

Preliminary Technical Datasheet



Features

- Highest non-class 9 energy possible in a BB-2590 package
- Rugged, military tough case construction
- SmartCircuit Technology® - Implements SMBus v1.1 smart battery technology
- Flexible output voltage
- State-of-Charge display
- Limited lithium content for un-restricted transportation

Applications

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

Optional Accessories

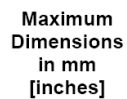
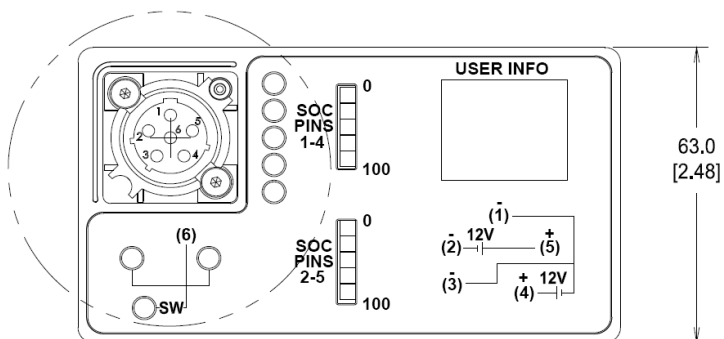
- CH0002: COTS Desktop Charger
- CH0003 or MRC-86: 6-bay Charger
- CH0004 or MRC-85: 2-bay Charger
- MRC-88: 5-bay Charger
- MRC135A: Single Unit Solar Charger
- MRC-143A: 3-Unit Solar Charger
- CA0003: 4 Conductor Cable
- CA0003: Vehicle Adapter
- CA0006: 24V, 2 Conductor Cable
- CA0007: 12V, 2 Conductor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

Technical Specifications

Part No.	UBBL38
NSN	6140-01-679-1397
Voltage Range	30V Mode: 20.0 to 33.6V 15V Mode: 12.0 to 16.8V
Average Voltage	30V Mode: 28.8V 15V Mode: 14.4V
Capacity	30V Mode: 2.9Ah @ 0.5A @ 23°C 15V Mode: 5.8Ah @ 1.0A @ 23°C
Max. Discharge	30V Mode: 4.8A continuous 15V Mode: 9.6A continuous
Max. Pulse Discharge	30V Mode: 6.0A for 5 seconds 15V Mode: 12.0A for 5 seconds
Energy	83.52Wh
Energy Density	127Wh/kg, 202Wh/l
Weight	655g
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	Unrestricted (see note)
Harmonized Tariff Schedule	8507.60.0000
Protection	Over Voltage Limit: 4.30V (per cell) Under Voltage Limit: 2.40V (per cell) Over Current Protection: 19.0A Re-settable Fuse: Activates @ 70°±5°C Re-sets @ 55°±5°C One-Time Thermal Fuse: Activates @ 91°±4°C
Charging	Recommended charge rate is 3.0A 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 4.8A.

Note

A complete description of transportation regulations, lithium weights and transportation classifications is available on the Ultralife website.



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