

UBI-2590 / SMBus Higher Capacity

Technical Datasheet

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Technical Specifications		
Part No.	UBBL13-01	
NSN	6140-01-640-8702	
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: 10.0Ah
		15V mode: 20.0Ah
	Minimal ¹	30V mode: 9.6Ah
		15V mode: 19.2Ah
Max. Continuous Discharge	30V Mode:	10.0A
	15V Mode:	20.0A
Max. Pulse Discharge²	30V Mode:	18.0A
	15V Mode:	36.0A
Energy¹	288Wh	
Energy Density	208Wh/kg, 334Wh/l	
Weight	1451g, 3.2lbs	
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.	
Terminals/Connector	Connector SC-C-179495	
Communications	Physical layer:	SMBus v1.1
	Protocol:	SBD v1.1 compliant
State of Charge Indicator	5-segment LCD display	
Harmonized Tariff Schedule	8507.60.0020	
Protection	Over Voltage:	4.30V (per cell)
	Under Voltage:	2.40V (per cell)
	Transient Currents:	23.0A > 15ms
		30.0A > 305us
Charging	Short Circuit	
	Overcharge Protection:	Up to 40V
	Thermal Cutoff Device:	Activates 70±5°C
		Resets 50±5°C
	Thermal Fuse:	Activates 93±5°C
Safety	Material Safety Datasheet - MSDS041	
	Refer also to Safety Guide UBM-5112	
Certifications	Designed to meet MIL-PRF-32383, IEC 62133:2012	
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	
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.	
	4. Transportation regulations, classifications and lithium content are available on the Ultralife website.	

Features

- Flexible dual mode output voltage
- SmartCircuit Technology - communication with host and charge equipment
- Accurate state-of-charge display for each side of the battery
- Rugged, military tough case construction can handle severe environments
- Highest energy density solution in the Ultralife UBI-2590 family

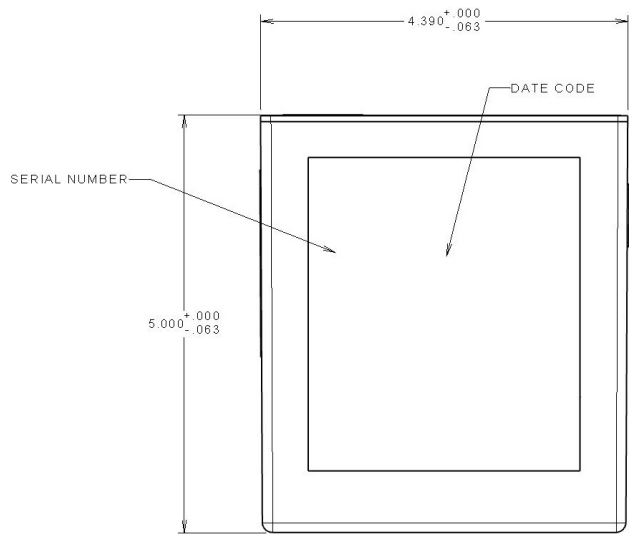
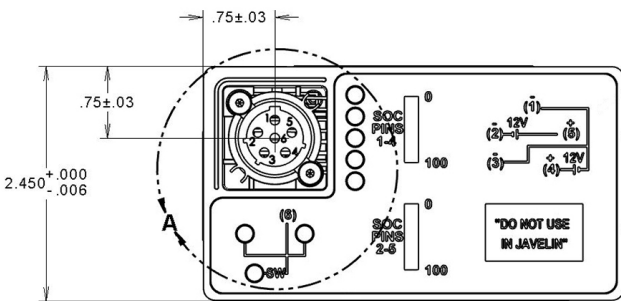
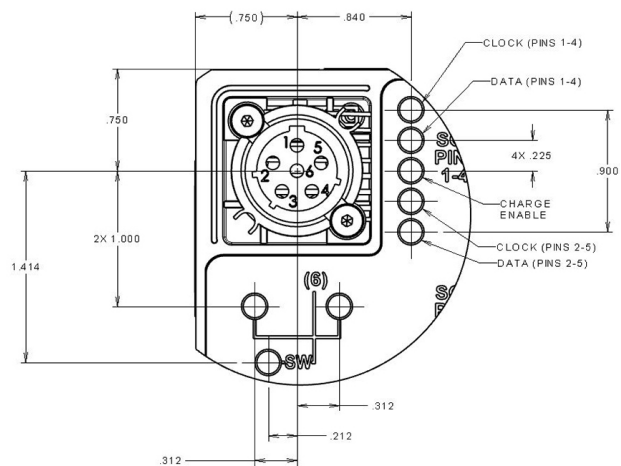
Applications

- 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
- MRC-135A: 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

