

UBI-2590 / SMBus Higher Capacity

Technical Datasheet





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

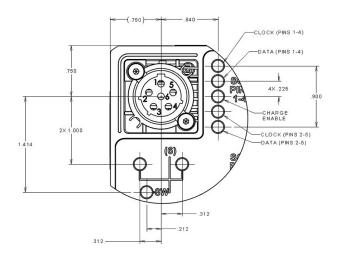
Optional Accessories

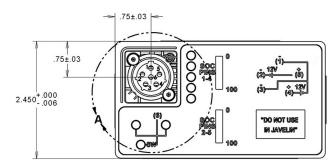
- · CA0003: Vehicle Adapter
- CA0006: 15/30V, 2 Conductor Cable
- CA0007: 15/30V 2 Conductor Cable
- CA0008: 15/30V, 4 Conductor Cable
- · CH0002: COTS Desktop Charger
- · MRC-135A: Single Unit Solar Charger
- MRC-143A: 3-Unit Solar Charger
- · UCA0039: Shielded Smart Cable
- UCA0114: Low Profile Smart Cable
- · UCH0053: 6-bay Charger
- · UCH0054: 2-bay Charger
- · UCH0056: Smart Desktop Charger
- UKT0011: Portable Battery System

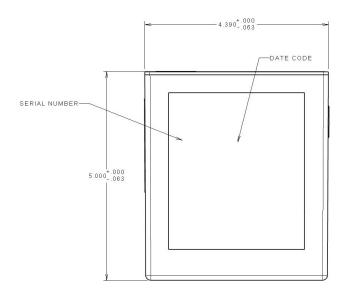
Technical Specifications				
Part No.	UBBL13-01			
NSN	6140-01-640-8702			
Voltage Range	30V Mode:	20.0 to 33.	6V	
	15V Mode:	10.0 to 16.	8V	
Average Voltage	30V Mode:	28.8V		
	15V Mode:	14.4V		
Capacity	Nominal ¹	30V mode:		
	NAS- 1 11	15V mode:		
	Minimal ¹ :	30V mode: 15V mode:		
Max. Continuous Discharge	30V Mode:	10.0A	13.ZAII	
max. Continuous Bioonargo	15V Mode:	20.0A		
Max. Pulse Discharge ²	30V Mode:	18.0A		
	15V Mode:	36.0A		
Energy ¹	288Wh			
Energy Density	208Wh/kg, 334Wh/l			
Weight	1451g, 3.2lbs			
Cycle Life ³	> 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: Protocol:	SMBus v1.1 SBD v1.1 compliant		
State of Charge Indicator		28D VI.I (compilant	
Harmonized Tariff Schedule	5-segment LCD display 8507.60.0020			
Protection	Over Voltage:	4.30V (per	cell)	
Totalion	Under Voltage:	2.40V (per cell)		
	Transient Currents:	23.0A > 15ms		
		30.0A > 30	5us	
	Short Circuit			
	Overcharge Protection:	Up to 40V		
	Thermal Cutoff Device:	Activates	70±5°C	
	Thermal Fuse:	Resets Activates	50±5°C 93±5°C	
Charging	Connect each side of the		**=* *	
	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			
	UL/CSA 62133-2			
	CB scheme - BE-41760			
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Transportation	UN 3480 Dangerous Goo			
Transportation	UN 3480 Dangerous Goo <300Wh. If packed in or v	vith equipme	nt (UN 3481) contact	
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Transportation Harmonized Tariff Schedule	UN 3480 Dangerous Goo <300Wh. If packed in or v	vith equipme ther questior	nt (UN 3481) contact	

- 1. Using a C/5 discharge rate at +25°C.
- 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

