

UBI-2590 / SMBus HC Commercial Label

Technical Datasheet

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Technical Specifications		
Part No.	UBBL13-01-CB	
NSN	6140-01-713-6875	
IEC Designation	4INR19/66-3	
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
	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	IEC 62133-2:2017, UL/CSA 62133, and CB scheme - BE-41760	
Transportation	Class 9 International and within U.S. unless shipped by motorcar or rail within U.S. UN Testing Summary - UNTS-0031A	
Harmonized Tariff Schedule	8507.60.0000	
Notes	- Using a C/5 discharge rate at +25°C. - Load has a pulse width of 5 seconds with a total period of 30 seconds. - 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.	

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, tough case construction can handle severe environments
- Highest energy density solution in the Ultralife UBI-2590 family

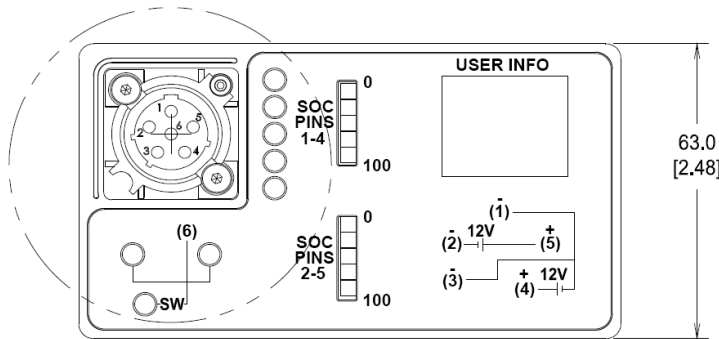
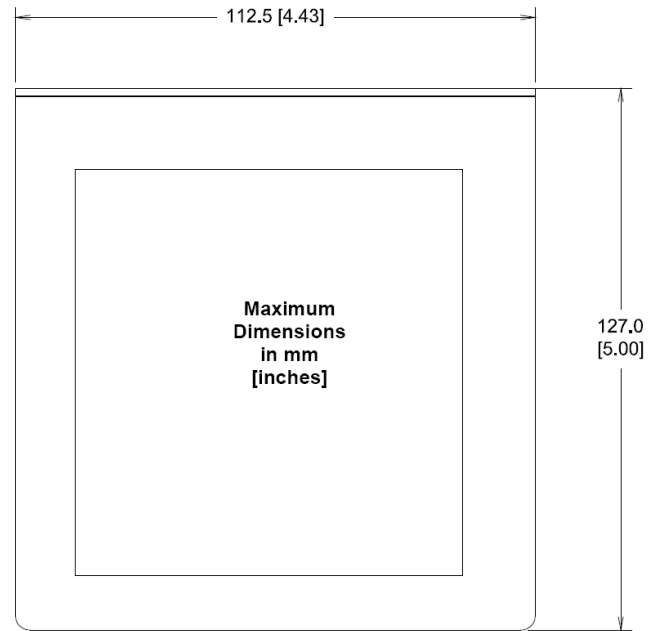
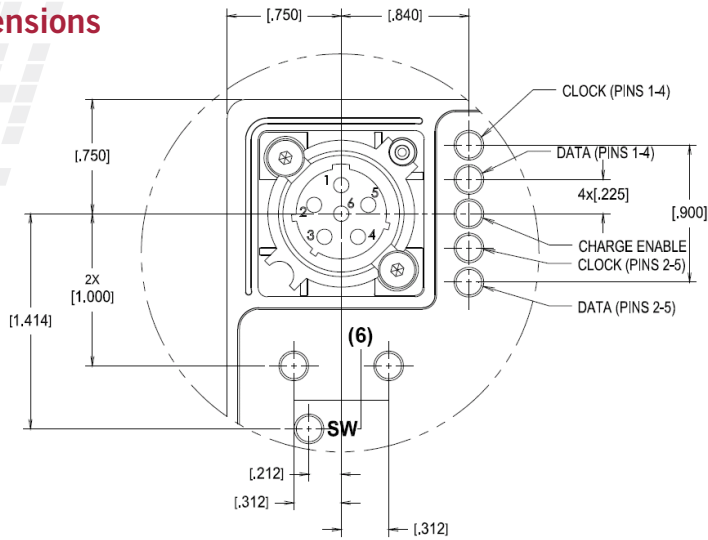
Applications

- Rugged, portable electronics
- Robotics / AUVs / UUVs

Optional Accessories

- UCH0056: Smart Desktop Charger
- CH0002: COTS Desktop Charger
- UCH0053: 6-bay Charger
- UCH0054: 2-bay Charger
- MRC135A: Single Unit Solar Charger
- MRC-143A: 3-Unit Solar Charger
- UKT0011: Portable Battery System
- CA0003: Vehicle Adapter
- CA0006: 15/30V, 2 Conductor Cable
- CA0007: 15/30V 2 Conductor Cable
- CA0008: 15/30V, 4 Conductor Cable
- UCA0039: Shielded Smart Cable
- UCA0114: Low Profile Smart Cable

Dimensions



Performance Graphs

