

# UBI-2590 SMBus

## Technical Datasheet

### The Ultralife Batteries Advantage

Through our engineering and collaborative approach to problem solving, we serve government, defense and commercial customers across the globe.



### FEATURES

- Rugged, military tough case construction
- Implements SMBus v 1.1 smart battery technology
- Smart battery data specification (SBD) v1.0 dataset
- SmartCircuit® technology providing advanced solutions not available from traditional batteries and chargers
- Flexible output voltage
- State-of-Charge display
- High energy density
- Enhanced version of UBI-2590 (UBBL02)

### APPLICATIONS

- Rugged, Portable Electronics
- Robotics / AUV's / UUV's
- Military Communication Devices

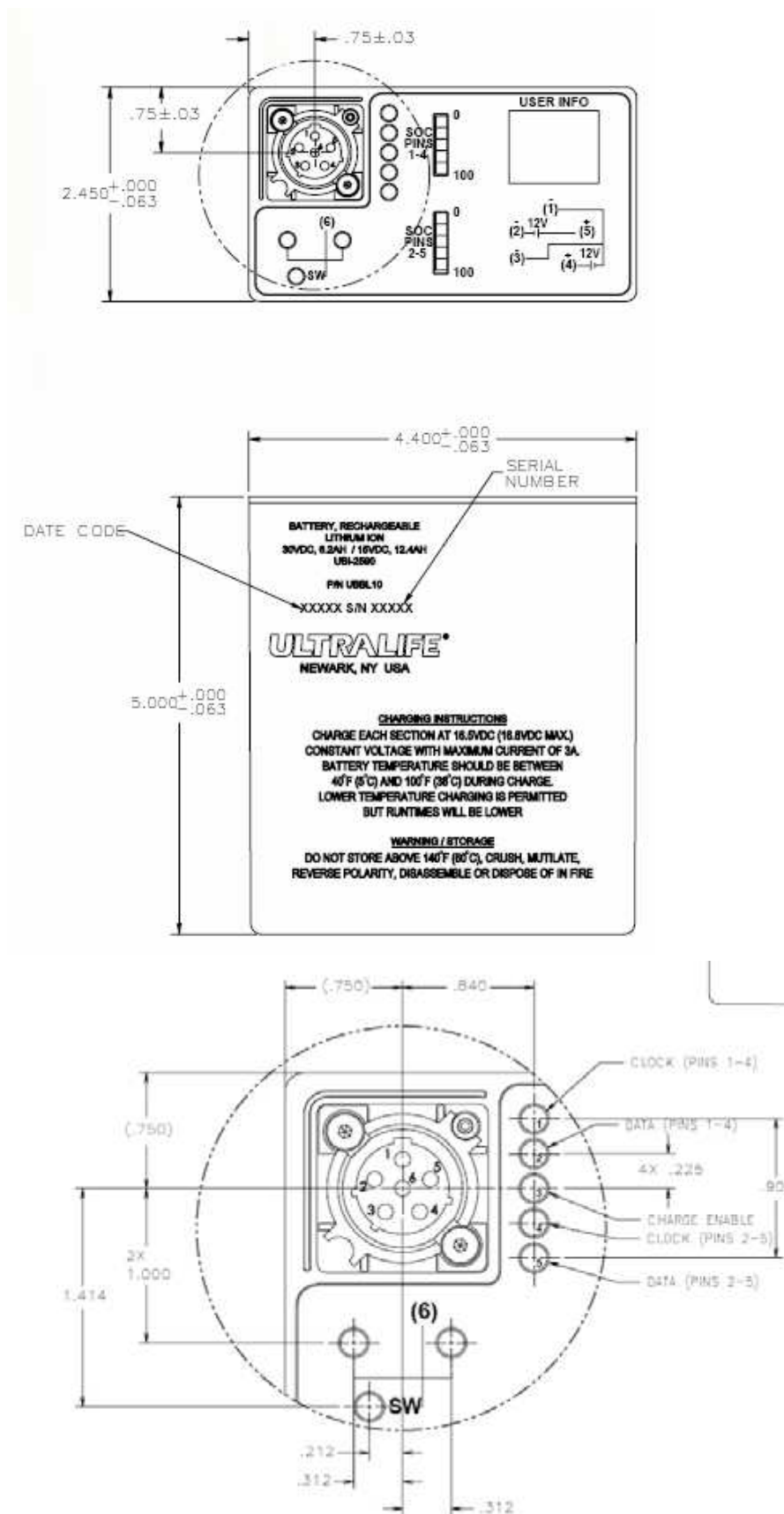
### OPTIONAL ACCESSORIES

- CH0025 soldier-based, smart charger
- CH0024 vehicle mount 6-bay smart charger
- CH0002 COTS desktop charger
- CH0003 6-bay tactical suitcase charger
- CH0004 2-bay tactical suitcase charger
- *Coming Soon:* UKTxxxx soldier-based smart charger solar panel kit, cables & case
- *Coming Soon:* UKTxxxx solder-based smart charger w/ AC/DC adapter kit & cables

### SPECIFICATIONS

<b>Part No</b>	UBBL10
<b>NSN</b>	6140-01-554-2347
<b>Voltage Range</b>	Two Sections: 14.4 VDC Nominal Series Mode: 33.0 VDC max. (20 – 33.0 V range) Parallel Mode: 16.5 VDC max. (10 – 16.5 V range)
<b>Nominal Capacity</b>	Series Mode: 6.8 Ah Parallel Mode: 13.6 Ah
<b>Max. Discharge</b>	Series Mode: 6 A Parallel Mode: 12 A
<b>Max. Pulse Discharge</b>	Series Mode: 18 A for 5 seconds Parallel Mode: 36 A for 5 seconds
<b>Energy</b>	206 Wh
<b>Energy Density</b>	143 Wh/kg, 237 Wh/l
<b>Weight</b>	1440 grams, maximum
<b>Cycle Life</b>	> 300 cycles @ C/5 to 80% of initial capacity @ 100% depth of discharge
<b>Memory</b>	No Memory Effect
<b>Operating Temp</b>	-32° C to 60° C
<b>Storage Temp</b>	-32° C to 60° C
<b>Self-Discharge</b>	< 5% per month
<b>Exterior/Housing</b>	Hard plastic, black (Noryl N190X-701)
<b>Terminals/Connector</b>	Connector SC-C-179495
<b>Communication</b>	SMBus v1.1 communication protocol SBD v1.0 data set support
<b>State of Charge Indicator</b>	LCD Displays, one for each section – absolute capacity based on design capacity
<b>Safety</b>	Material Safety Datasheet – MSDS041.
<b>Transportation</b>	Excepted – U.S.; Class 9 – Int'l. See note 1. No export license required.
<b>Harmonized Tariff Code</b>	8507.80.0000
<b>Charging</b>	Charge each section at 16.60 V with a maximum current of 3 A for a maximum of 3 hours or until current tapers to 300 mA. Refer also to Safety Guide UBI-5112.
<b>Note 1</b>	For a complete description of transportation regulations and definitions of the transportation classifications "Excepted" and "Class 9," refer to the Ultralife web site at <a href="http://www.ultralifebatteries.com">www.ultralifebatteries.com</a> .

**DIMENSIONS**



PERFORMANCE GRAPHS

