

UBI-2590SF SMBus

Technical Datasheet



Features

- Rugged, military construction
- SmartCircuit Technology® – implements SMBus v1.1 smart battery technology
- State-of-Charge display
- High energy density
- Higher rate capabilities, 12A continuous for up to 20 minutes
- Compatible with existing UBI-2590 accessories and chargers
- Self-protects from accidental 24V discharge attempts

Applications

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

Optional Accessories

- UCH0056: Smart Desktop Charger
- CH0002: Desktop charger
- CH0003: 6-bay tactical suitcase charger
- CH0004: 2-bay tactical suitcase charger
- MRC-135A: Single Unit Solar Charger
- UADXXX: Full-size 2590 adapter. Allows for smaller and lighter battery to be used in applications designed for full 2590.
- CA0002: 4 Conductor Cable
- CA0007: 12V, 2 Conductor Cable
- CA0008: 12/24V, 4 Conductor Cable
- UAD0012: XX90 Rechargeable Mating Connector
- See the XX90 Battery & Accessory Reference Guide on Ultralife's website

Technical Specifications

Part No	UBBL36
Voltage Range	14.4VDC Nominal 16.8VDC max. (10.0V – 16.8V range)
Nominal Capacity	8.7Ah @ 0.5A @ 23°C
Max. Discharge	Recommended: 9A continuous @ 23°C Max: 6A
Max. Pulse Discharge	13A for 6 sec 19A for 2 sec
Energy	125.3Wh nominal
Energy Density	179Wh/Kg.
Size	4.39in x 2.44in x 3.05in
Weight	730g max
Cycle Life	> 300 cycles @ C/5 to 80% of initial capacity @ 100% depth of discharge with the recommended charge profile.
Memory	No Memory Effect
Operating Temp	-20°C to 60°C
Storage Temp	-20°C to 50°C For long-term storage 23°C is recommended
Self-Discharge	< 5% per month
Exterior/Housing	Hard plastic, desert tan (Noryl N190X)
Terminals/Connector	Connector SC-C-179495
Communication	SMBus v1.1 communication protocol SBD v1.0 data set support
State of Charge Indicator	LCD Display – absolute capacity based on design capacity
Safety	Material Safety Datasheet – MSDS041 Safety Guide UBM-5112
Transportation	Class 9 - U.S. and International (see note)
Harmonized Tariff Code	8507.80.0000
Charging	Recommended charge rate is 3A to a maximum voltage of 16.8V in temperature range 0°C to 45°C. Hold at 16.8V until current declines to 150mA. Max charge rate is 4.1A.
Note	A complete description of transportation regulations, lithium weights and transportation classifications is available on the Ultralife website.

Dimensions

