



TECHNICAL DATA SHEET
LITHIUM ION
RECHARGEABLE BATTERY

BB-2590/U

With SMBus



BATTERY SPECIFICATIONS

Model No: PB-2590-SMB-7.2	NSN: TBD
Manufacturer CAGE Code: 03UN7	
Voltage Range: Series Mode: 20.0V min.; 29.6V nom.; 33.6V max. Parallel Mode: 10.0V min.; 14.8V nom.; 16.8V max.	
Nominal Capacity: Series Mode: 7.2 Ah @ 500mA @ 23°C (74°F) Parallel Mode: 14.4 Ah @ 1.0A @ 23°C (74°F)	
Maximum Discharge: Series Mode: 10.0 A continuous @ 23°C (74°F) Parallel Mode: 20.0 A continuous @ 23°C (74°F)	
Maximum Pulse Discharge: Series Mode: 22.5A for 10 msec; 18.0 A for 5 seconds @ 23°C (74°F) Parallel Mode: 45A for 10 msec; 36.0 A for 5 seconds @ 23°C (74°F)	
Energy: 213 Wh	
Energy Density: 152 Wh/kg, 249 Wh/l	
Weight: 1400 grams / 1.4Kg (3.1 lbs.)	
Cycle Life: > 300 cycles @ C/5 to 80% of initial capacity @ 100% depth of discharge	
Operating Temp: -20° to 70°C (-4°F to 158°F)	
Storage Temp: -20°C to 50°C (-4°F to 122°F)	
Self-Discharge: < 3% per month @ 25°C (77°F)	
Housing: Hard plastic, tan, lusterless, UL 94 V-0, NORYL	
Terminals/Connector: Floating type per U.S. Army DQWG# SC-C-179495	
Communication: SMBus v1.1 communication protocol SBD v1.1 data set support	
State of Charge Indicator: 2 Separate 5 segment LCD Displays	
Safety: See Material Safety Datasheet - MSDS040	
Transportation: See MSDS040	
Harmonized Tariff Code: 8507.80.0000	
Charging: Charge each section at constant voltage of 16.8 Volts in a temperature range of 0° to 45°C, limiting current to 3.0 amps until current declines to 100mA. Both sections can be charged in parallel.	

APPLICATIONS

- Robotics
- UGV's / UAV's / UUV's
- Communication Devices
- Ruggedized Portable Electronics
- Autonomous Remote Sensors and Surveillance

KEY FEATURES

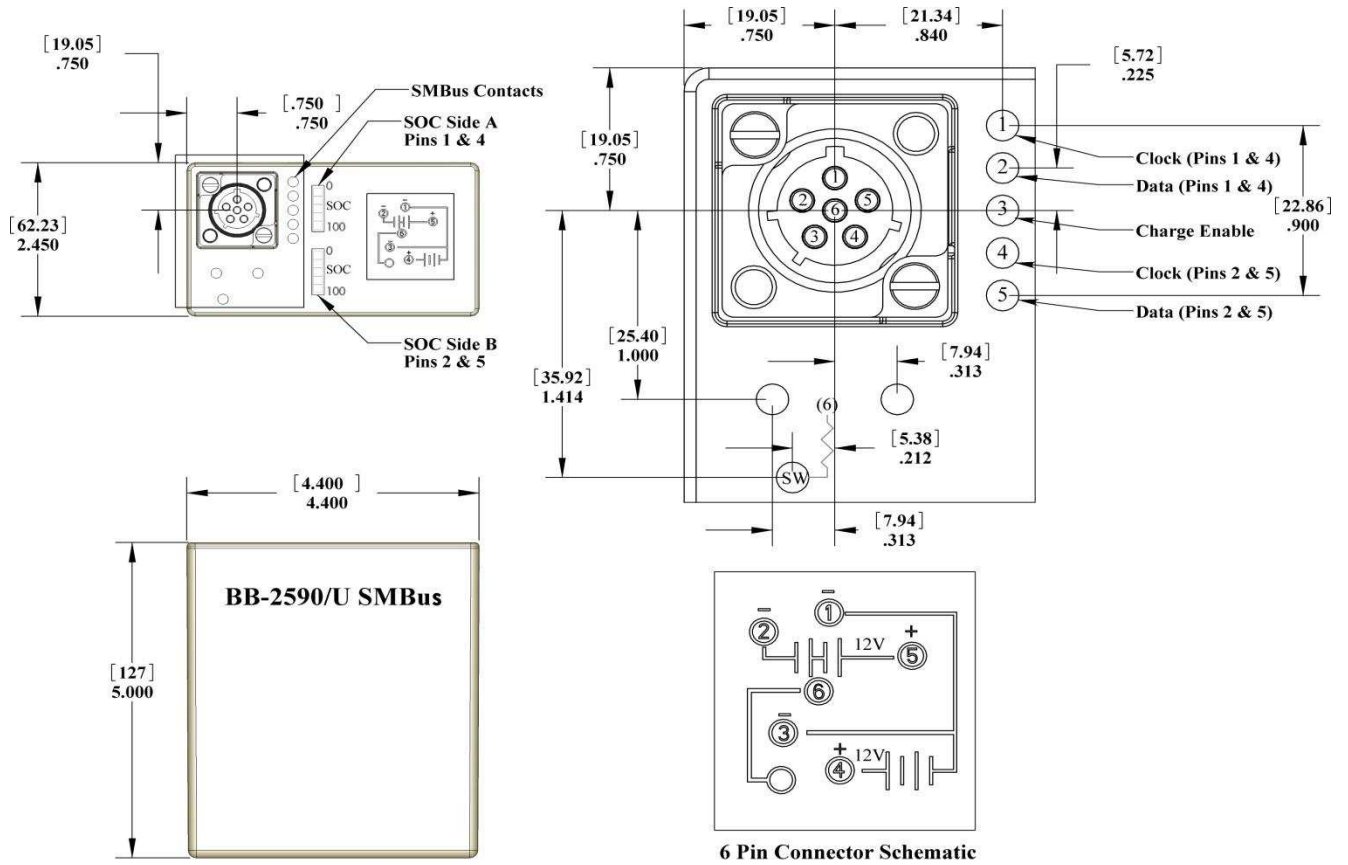
- SMBus v 1.1 smart battery technology
- Smart battery data specification (SBD) v1.1 dataset
- Immersion compliant per MIL-STD-810G, Section 512.5
- EMI compliant per MIL-STD-461F
- Dual output voltage
- Dual State-of-Charge (SOC) display

COMPATIBLE CHARGERS

- **PC-6240** 24-station bulk smart charger
- **PC-6080** 8-bay tactical portable smart charger
- **PC-6060** 6-bay tactical portable smart charger
- **PC-6040** 4-bay tactical portable smart charger
- **PC-6020** 2-bay tactical portable smart charger
- **PC-6010-01** 1-bay tactical portable smart charger
- **PC-6010-03** 1-bay tactical portable smart charger
- **PC-6500** dual battery desk top charger
- **PC-6200** single battery desk top charger
- **PCR-6080** unmanned vehicle charger
- **PCD-6040** docking station for PCR-6080 charger

COMPATIBLE CABLES

- **PE-CN1** cable with metal mating connector
- **PE-CN2** cable with plastic mating connector
- **PE-CC3** charge cable for PC-6200 charger
- **PE-CC3-01** charge cable for PC-6500 charger



DIMENSION IN: Inches[mm]