

DATA SHEET LITHIUM ION RECHARGEABLE BATTERY LAND WARRIOR BATTERY PB-LWH-02

High Capacity Low Operating Temperature



TYPICAL APPLICATIONS

- Military Training Systems
- Back-up Server Power
- > Rugged, Portable Electronics

STANDARDS COMPLIANCE

- SMBus v 1.1 smart battery technology compliant
- SBD v 1.1 smart battery dataset compliant
- MIL-STD-810G compliant
- MIL-STD-461F (EMI) compliant
- > UN/DOT Transportation 38.3 T1-T8 compliant
- Manufactured under ISO 9001:2008 certified quality system

KEY FEATURES

- Charging, discharging and SMBus capabilities available via the connector or flat contacts
- High Capacity (20% increase vs. PB-LW-02)
- Low operating temperature (-30°C / -22°F)
- 5-segment State-of-Charge (SOC) display
- High energy density

COMPATIBLE CHARGERS

- > PC-6010-02 1-bay tactical portable smart charger
- > PC-6805 8-bay tactical portable smart charger
- > PC-3200M/C 32-station bulk smart charger

COMPATIBLE CABLES

PE-CC2-04 discharge cable

COMPATIBLE BATTERY TESTER/ANALYZER

PE-BT-03

BATTERY SPECIFICATIONS

Model No: PB-LWH-02

Voltage Range: 10.0V min.; 14.8V nom.; 16.8V max.

Nominal Capacity: 8.7 Ah @ 500mA @ 23°C (74°F)

0.7 AII @ 500IIIA @ 25 C (74 I

Maximum Discharge: 4.0 A continuous @ 23°C (74°F)

Maximum Pulse Discharge:

6.0 A for 5 seconds @ 23°C (74°F)

Energy: 128 Wh

Energy Density: 156 Wh/kg, 216 Wh/l

Weight: 818 grams (1.8 lbs.)

Cycle Life:

> 300 cycles @ C/5 to 80% of initial capacity @ 100% depth of discharge

Operating Temp: -30°C to +60°C (-22°F to +140°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, black, lusterless, UL 94 V-0, NORYL

Connector: LEMO HEN.1F.305.XLNP

Mating Connector:

LEMO FGN.1F.305.YLC or LEMO FGN.1F.305.XLC

Flat Contacts: Copper alloy with gold plating over nickel plating

Communication: SMBus v1.1 communication protocol SBD v1.1 data set support

State of Charge Indicator: 5 segment LCD display

Safety: See Safety Data Sheet - SDS053

Transportation: See Safety Data Sheet - SDS053

Export Classification: EAR99

Harmonized Tariff Schedule: 8507.60.0020

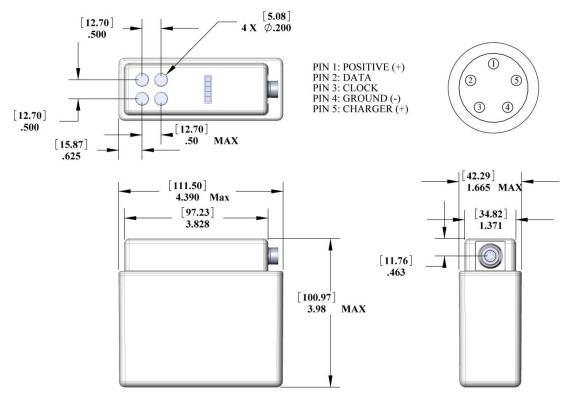
Charging: Charge at constant voltage of 16.8 Volts in a temperature range of 0°C to +45°C (+32°F to +113°F), limiting current to 3.0 A max, at 23°C, until current declines to 200 mA.

Charging Method: The battery should be charged using a constant current/constant voltage (CC/CV) charging method.

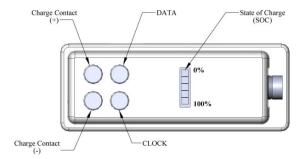




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Dimension in: inches [mm]



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