

FEATURES

- 3.6V batteries with plug-in connector
- Easy to install and replace
- Stainless steel container
- Hermetic glass-to-metal sealing
- High energy density
- Very low self-discharge rate
- Wide operating temperature range: -40°C to +85°C
- For use on WinSystems' industrial SBCs

WinSystems offers two off-board batteries for our industrial, extended temperature, single board computers (SBCs). They are designed to provide standby power for real time clock and CMOS setup RAM functions.

WinSystems selected Lithium Thionyl Chloride (LTC) batteries as this technology offers higher energy density by weight and volume as compared to alkaline battery technology. Plus these batteries operate in temperatures ranging from -40°C to +85°C. LTC batteries are better suited for applications with low continuous current and moderate pulse current requirements. Their long service life and low self-discharge rate make them ideally suited for use in harsh or inaccessible environments like utilities, transportation, oil and gas monitoring, and data logging.

The off-board battery is wired to a 3-pin Molex connector that plugs directly into the WinSystems' SBC. A protection diode is on the negative lead to prevent accidental charging. A metal clamp is also included to securely mount the battery in an enclosure or mounting plate.

SPECIFICATIONS

Electrical

- Nominal Voltage: 3.6V, for cells stored at +20°C for 12 months or less
- Nominal Capacity: 1650 mAh, BAT-LTC-E-36-16-1
2700 mAh, BAT-LTC-E-36-27-1
Discharged at 1mA at +25°C,
2.0V cut-off voltage
- Maximum Recommended Continuous Current: 40mA
Calculation levels; 50% nominal capacity, +25°C temperature, 2.0V cut-off voltage
- Protection Diode, Negative Lead: RoHS BAT 48 or equivalent



UL Certification

- BAT-LTC-E-36-16-1:
Model ER14335, File Number MH45994

Mechanical

- BAT-LTC-E-36-16-1:
Cell Diameter: 16 mm
Cell Height: 35 mm
Weight: 13 grams
- BAT-LTC-E-36-27-1:
Cell Diameter: 16 mm
Cell Height: 52 mm
Weight: 19 grams

Diode Connector

Battery is supplied with 3-pin in-line Molex cable

Temperature

- Operating: -40°C to +85°C
Storage Recommended Maximum: +30°C

ORDERING INFORMATION

- BAT-LTC-E-36-16-1 External 3.6V, 1650 mAh battery with plug-in connector
- BAT-LTC-E-36-27-1 External 3.6V, 2700 mAh battery with plug-in connector

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