



USB Battery Charger 1.0 Datasheet



This USB powered battery charger is used to charge the LIR2450 Lithium-ion batteries used in our HP Candle Module 1.0B units. This charger is designed for both RCR2450 and LIR2450 rechargeable Lithium-ion button cell batteries and is powered directly through a USB port. Two onboard LEDs provide the user with a status of the battery charging. One LED is used to indicate the battery is charging while another LED is used to indicate the battery charge cycle is complete and ready for use.

The USB Battery Charger 1.0 comes fully assembled and ready for use right out of the box.

Features

- Intelligent battery charging using an advanced microprocessor
- Charges rechargeable RCR2450 and LIR2450 Lithium-ion coin cell batteries
- Plugs into and is powered through any standard USB port.
- Two onboard LEDs indicate charge status (charging, ready)
- Custom designed PCB board utilizes the proper thickness for a proper fit
- Gold plating ensures a corrosion-free surface for battery contact

Operating Modes

- Standard charge mode (controlled through advanced microprocessor)
- Trickle charge mode (controlled through advanced microprocessor)

Typical Applications

- Designed specifically for the High Power Candle Module 1.0B
- Compatible with most RCR2450 and LIR2450 rechargeable batteries



LED Status Outputs

Please refer to the following table regarding the status LEDs. The silkscreen labels on the PCB board of the charger are incorrect.

LED	Status Description
Red	Pre-conditioning / Fast charge / Constant voltage
Green	Charge complete
Both Red and Green	Battery not present / Shutdown mode