

Altech® CBI All-in-One UPS Power Solutions Combine Power Supply, Battery Charger, Battery Care Module, and Backup Module in Single Device

CBI all-in-one UPS power solutions from Altech Corp.® combine multiple functions in a single device for use as a power supply unit, battery charger, battery care module, or backup module. This "intelligent" device is compatible with a range of common battery types and is fully equipped with a real-time diagnostics system to continuously monitor battery status, charging levels, and potentially emerging battery faults. The CBI device ultimately will suit any battery-power application in any industry or setting where battery reliability is essential and the availability of backup power is critical.

The CBI UPS (Uninterruptible Power Supply) device is available in 12VDC, 24VDC, and 48VDC output versions for pairing with conventional battery types including open lead acid, sealed lead acid, lead gel, and Ni-Cd (as an option). The device features three charging levels (Recovery, Boost, or Trickle), allows for adjustment of charging current (from 20% to 100% of output current), and automatically and ideally distributes available power among load and battery. High efficiency up to 91% is achieved through switching technology.



The device's battery-charging function is microprocessor-controlled and uses algorithms to detect a battery's condition and then choose the appropriate charging mode. Real-time diagnostics enable easy battery diagnosis and fault identification (displayed by LED) to protect against potentially occurring faults, such as short circuit, inverted polarity, overload, or disconnection of the battery. If the CBI device ever becomes disconnected from the main power source, the battery will serve to supply the load until battery voltage reaches 1.5 V per cell, preventing deep battery discharge.

The CBI device performs over a wide temperature range from -40°C to 70°C (-40°F to 158°F) and is housed in a compact and rugged metal case offered in three sizes. The device can be DIN-rail mounted using a built-in a bracket.

This power solution builds upon and expands Altech's extensive line of dedicated CB battery chargers, which feature the same advanced automatic diagnostics, charging level options, and protection against potential faults. All Altech power solutions meet relevant safety and EMC product standards.

The all-in-one device is covered by a three-year warranty and custom products can be developed to meet particular application requirements.