



## Features of our chargers

- fully automatic operation
- microprocessor controlled
- SCR phase control
- 3 stage charging profile (IUUa)
- will start on batteries as low as 4 volts
- simple red-yellow-green led display
  - red – charging
  - yellow – 80% charged
  - green – ready to use
- reverse polarity & short circuit protection
- mean value ammeter
- current and voltage output are not affected by AC power supply
- on-off switch allows user to disconnect power without having to pull the wall plug – this prevents DC plug damage



## Key Benefits of our technology

### Fast Charging

- ~ current remains constant to 80% charge level
- ~ charges faster than ferroresonant or other taper chargers

### Controlled Voltage

- ~ reduces plate corrosion & promotes longer battery life

### Controlled Gassing

- ~ reduces water consumption & decreases maintenance requirements

## Connectors

The CBN 1 24V-12a and CBN 2 24V-25a are fitted with SB50 red plugs. The CBN 2 36V-22a is fitted with a SB175 grey plug.

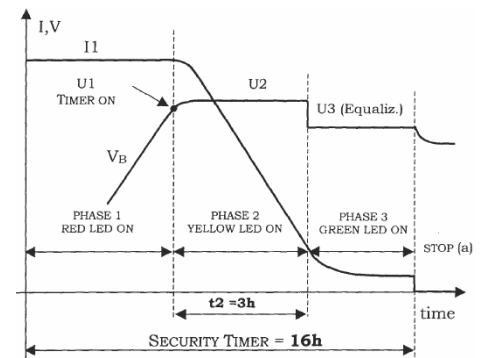
## Warranty

BT chargers are covered by a one year warranty against defects in materials in workmanship. Transformers are covered for an additional one year.

## Safety / Electrical Approvals

Model CBN 1 24V-12a is CSA Certified to CAN/CSA – C22.2 No. 107.2 and is approved to UL 1236. All other models are CSA approved to C22.2 No(s) 0, 0.4 and SPE-1000-99.

## 3 Stage Charging Profile



- I1 = constant current phase (bulk)
- U2 = constant voltage phase (absorption)
- U3 = constant voltage phase (equalize)
- V<sub>B</sub> = battery voltage
- t2 = gassing phase

