

# HTM

## BC2410 AUTOMATIC BATTERY CHARGER

### INTRODUCTION

Back up power supply for instruments and control relays is an important part of instrumentation & control system in the modern world. HTM BC2410 battery charger is a purposely designed, versatile & compact battery charger that is used to provide continuous 24Vdc power supply to power instruments connected to it and at the same time charging back up batteries for use during AC power failure. The unit is housed in a compact, lightweight metal casing equipped with voltmeter, ammeter, switch with indicator, standard British plug and heavy duty terminals for connection to equipment and batteries.



### PRINCIPLE OF OPERATION

HTM BC2410 automatic battery chargers are constant voltage chargers which vary the charge current according to the voltage level of batteries connected. Optional 'float' & 'boost' charge device can be provided. The charger voltage of BC2410 is factory set to suit type of battery used as recommended by battery manufacturers. The high performance switching power supply embedded in the charger, together with an integral power line filter, provide a regulated, noise filtered, clean, high quality power output normally demanded by the instrumentation industry. The voltmeter and ammeter on the front facial of the charger enable status of the charger to be monitored closely.

### FEATURES

#### **Integral power line filter**

HTM BC2410 automatic battery charger incorporates an integral power line filter which effectively eliminates electrical noise generated by motors, inverters etc or electrical spikes induced during lightning strikes. Hence making it suitable for use in lightning prone area where normally remote instruments are installed.

#### **Specially designed for instrumentations**

The 24V 10A current output of BC2410 automatic battery charger is optimum capacity for charging back batteries of typical instrumentation systems, which normally run on 24Vdc to provide back up of 24 hours to 8 days.

#### **Voltmeter & ammeter**

Voltmeter and ammeter are available at the front facial for monitoring of charger output.

#### **Alarm/status outputs**

Standard HTM BC2410 automatic battery chargers are equipped with 'Mains on' and 'Battery low' contacts for connection to monitoring circuits.

#### **Lightweight & compact enclosure**

The enclosures of HTM BC2410 automatic battery chargers are fabricated from polyester coated mild steel casing with ventilated louvers and fan. Standard units are equipped with portable handle for easy handling.

## High temperature & overload protection

In the event of high temperature or high current output due to short circuit or equipment fault, BC2410 battery charger will automatically shut down to prevent damages. Unit is auto reset by switching off and on the main switch manually.

## Redundancy

HTM BC2410 automatic battery chargers can be connected in parallel and powered on at the same time to provide redundancy and added capacity.

## High service life

The main components of HTM BC2410 automatic battery charger consist of components from reputable makes which have low MTBF of up to 170,000 hours. High service life can be expected.

## Over charging protection

The charging voltage of BC2410 is set to avoid over charging of batteries

## OPTIONS

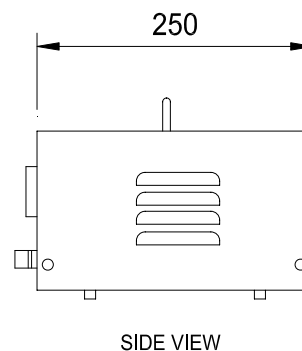
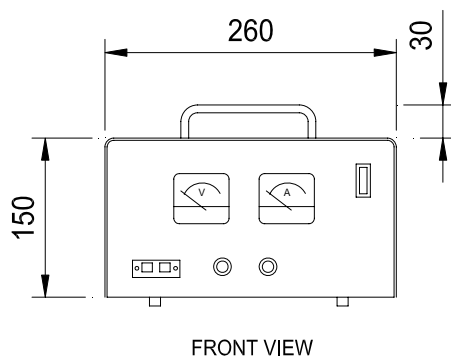
The following options are available upon request:

- Float & boost charge device
- Charger failed contact
- Low battery voltage cut off protection
- Separate output & battery terminals

## SPECIFICATIONS

Type : Continuous, automatic  
Max. operating voltage : 264VAC 50/60Hz  
Output voltage range : 20 to 28V  
Set voltage : 26.4V  
Current rating : 10A  
Ripple & noise (max.) : 180mVp-p  
Battery low contact : 22V  
Main switch : Rocker switch with neon light  
Casing material : Polyester coated steel  
Battery type : Sealed lead acid or Nicad  
Inlet : 13A UK main plug  
Outlet : 16A shrouded panel sockets  
Operating temperature : -10°C to 60°C  
Relative humidity : 20 –90% non-condensing  
Dimensions : 250D X 260W X 150H (mm)  
Weight : 6kg  
Cord length : 600mm  
Mounting: table top with rounded handle

## DIMENSIONS



ALL DIMENSIONS IN MM

All Rights reserved

Manufactured by :

**HTM Instruments Sdn Bhd** (Company No 687564-T)  
29, Jalan SG 10/4, Taman Seri Gombak,  
68100 Batu Caves, Selangor, Malaysia.