

### Description

The Mertech series of metal enclosed intelligent battery chargers have been developed with safety, usability, optimised battery performance and maximum battery lifetimes in mind.

The BC series can be used directly from the box, relying on a preconfigured lead/acid charging curve and selected manually for either 12V or 24V operation (including a voltage trimming potentiometer function). Alternatively they can be connected via a USB to a PC (using the free PC configuration suite software) and can be configured with pre set charging curves for different battery types. The user also has the option of configuring their own bespoke charging curve for advanced battery applications.

A comprehensive range of input and output protections ensures a continued safe charging environment also enabling the use of the charger as a power supply. Higher charging / power supply currents can be achieved by linking together multiple chargers from this series.

The chargers can be integrated into an external system through modbus RTU using RS485 as well as an optional external remote LCD display being available.

### Advanced Features

- Intelligent two, three and four stage charging profiles
- Configurable to suit most battery types (12V/24V)
- Adjustable current limit
- Can be used as a battery charger, power supply or both at the same time
- Automatic or Manual boost and storage charge functions to help maintain battery condition
- Digital Microprocessor Technology
- Temperature compensation for battery charging
- Low Output Ripple and superb line regulation
- Available in two variants (LCD display or LCD display & analogue meters)



### SPECIFICATION

AC VOLTAGE RANGE	-	90 V to 305 V (L-N)
FREQUENCY RANGE	-	48 Hz to 64 Hz (L-N)
DC OUTPUT RATING:		
BC 512/24 OUTPUT	-	5A DC at 12V & 24V DC
BC 1012/24 OUTPUT	-	10A DC at 12V & 24V DC
RIPPLE AND NOISE	-	<1%
EFFICIENCY	-	>86%
AUXILIARY OUTPUT	-	100 mA DC at 12 V

### PROTECTIONS

- Short Circuit
- DC Over Voltage
- DC Over Current
- Reverse Polarity
- Over Temperature
- AC Under & Over Voltage
- Battery Charger Failure

### CHARGE FAILURE RELAY

3A at 30 V DC volt free relay

### WEIGHT & DIMENSIONS

W-165 mm x H-305 mm x D-110 mm - 2.3 kg

### OPERATING TEMPERATURE RANGE

-30oC to +55oC

