



## B250 Battery Charger

### Features

- Very small size, light weight
- Fully monitored
- Detail LED diagnostics
- 24 V or 48 V battery charger output
- Remote fault report output
- Simple quick service
- Early warning of battery system trouble
- Rapid fault location, minimum down time
- Requires only ONE charger to recharge and manage 48 V battery strings

### Description

The BARTEC VODEC B250 Battery charger unit is specifically designed to manage, float charge and re-charge valve regulated lead acid (VRLA) batteries (sometimes referred to as sealed lead acid batteries).

The unit forms a key part of the no break power supply subsystem for use with our emergency alarm and voice broadcast package when AC mains autonomy is specified.

B250 comprises of a minimal depth low profile 19 inch rack mounting enclosure, designed to engage just 1 unit of rack space, which houses a single motherboard style electronics module. 24 V or 48 V battery strings without recourse to multiple charger arrays.

The unit fascia carries detailed supervisory LED status and 3.5 digit high visibility LED voltmeter/ammeter readouts to facilitate rapid service and maintenance.

The rear panel facilitates plug in/out connections of AC mains supply, battery charger output voltage and supervisory output to host management processor; there are no screw terminations/hard wired connections.

The B250 incorporates extensive automatic monitoring to verify critical path from battery pile to charger, including all fuses, and supervision of AC mains supply input and correct charger output voltage. Group fault warning volt free contact is available to remote external equipment and comprehensive LED diagnostics are fitted as standard.

Temperature compensation is incorporated to ensure that the unit is protected in adverse operating conditions and full open/short circuit protection is incorporated. The B250 is designed to operate in conjunction with Vodec VRLA battery strings rated up to 150 ampere hours.

### Technical Data

#### Supply input

Selectable by internal plug link  
AC 115 V/AC 230 V  $\pm 10\%$

#### Frequency

50/60 Hz  $\pm 10\%$

#### Maximum load power

400 VA

#### Power factor

0.99 almost unity

#### Charger output

26 V to 27.5 V preset to 26.5 V  
52 V to 55 V preset to 53 V

#### Maximum charger current

7.5 A

#### Dimensions

483 mm wide  
44.5 mm high  
160 mm deep

#### Weight

approx. 5 kg

#### Connections

AC supply input IEE male, Charger output  
4 pin male Phoenix connector, Supervisory  
8 pin male Phoenix connector

#### Storage temperature range

-20 °C to +50 °C

#### Operating temperature range

-20 °C to +50 °C

#### Humidity

25 % to 80 % non condensing