

# PowerConnections

## Battery Charger Adaptor BCA Technical Data & Fitting Instructions

### Description

The 2 Pin European VDE Battery Charger Adaptor (BCA) is an adapter that converts the European CEE VII VDE Plug top power supply to the BS 1363 system format. The Adaptor is designed and manufactured to meet the requirements of BS 5733. It complies fully with the LVD and Plug and Socket Safety Regulations. The design of the clamping method ensures the body of the European CEE VII plug top power supply plug body is enclosed. It has been tested and approved for use with plug top power supplies (e.g. mobile phone chargers, battery chargers, night lights and the like).

### Classification

- Adapter, Single Portable,
- Re-wireable plug,
- Fused,
- Normal Use,
- Converts CEE7 plug top power supplies to the BS 1363 Format,
- Suitable for class 2 devices (unearthed) only.
- Not suitable for any other plug system.

Certification - BSi Kitemark to BS 5733

Relevant Standards - BS 5733 – Electrical Accessories  
 BS 1363 – Plug Features  
 BS 1362 – Fuse Link  
 BS EN 61558 – Transformers

### Rating

- |                            |                                     |
|----------------------------|-------------------------------------|
| - Voltage                  | 230V ac (Nominal)                   |
| - Current                  | 3 amps max.                         |
| - Load                     | 2000 Watts Max                      |
| - Frequency                | 50 Hz                               |
| - Environmental Protection | IP 3X (STD BS1363 Accessory Rating) |
| - Fuse                     | 3 amp, BS 1362                      |
| - Flammability             | V2 (External Casing)                |
| - Mechanical Strength      | 1000 Drops @ 500mm                  |
| - Colour                   | Black or White                      |
| - Weight                   | 50 Grams Typical                    |
| - Finish                   | Plain and Fine Sparkle              |
| - Retaining Screw          | Plain or Tamperproof                |

Note: - Tolerance as per relevant British Standard.

### Safety Design Features

- External fuse access, opening of BCA not required
- Single screw operation to secure VDE Plug Top Power Supply
- No Loose parts
- Non-removable cover
- Plug Features designed to meet the requirements of BS1363
- Meets the requirements of the DTI Plug and socket regulations.

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## Installation System

The Battery Charger Adaptor (BCA) is designed for use within the BS1363 Plug and Socket system only, as defined by the Wiring Regulations BS 7671.

## Fitting

The Euro Adaptor (BCA) should be fitted as follows

1. Insert the power supply or CEE7 plug in to the Battery Charger Adaptor (BCA)
2. Tighten retaining screws to 6.12 Kgf.cm
3. TEST: Grip the BCA and pull the VDE transformer to ensure fully secure, if not then increase the torque setting and further tighten. Re-test.
4. Now the BCA is ready for use.

NOTE: Cover is non-removable; the screw does not release the cover.

## Service Conditions

- Temperature Range
  - Storage -40C to +70C Ambient
  - Working -50C to +40C 95% RH Ambient
- Altitude 2000m above sea level max
- Not subject to exposure to direct radiation from the sun
- Abnormal Condition – Avoid pollution by smoke, chemical and flammable fumes salt laden spray, periods of high humidity > 95% relative humidity (RH)