



## Technical Data Sheet

### CANFORD MDS AC MAINS POWER DISTRIBUTION STRIPS 20A – 14 X IEC

**42-8111** MDS1 3m lead

**42-8121** MDS2 Powercon

**42-8131** MDS3 cable gland

#### DESCRIPTION

These AC mains power distribution strips, with a single power inlet, offering 14 IEC outlets, are designed to mount vertically or horizontally within the rear of a rack, inside flight cases or be flush mounted on walls or under work stations. A multi-position lacing bar option caters for most IEC cable connector types.

A single 20 amp inlet is internally split between two groups of seven IEC outlets. Each group of seven outlets is rated at 10 amps total and is fitted with an independent 10 amp fuse and power-present neon lamp. Power inlet is via either a cable gland and internal screw terminal block, a fixed un-terminated 3-metre orange lead, or a 20 amp Powercon connector. Cable gland and fixed leads are located on the end of the case. The Powercon inlet is located on the front panel adjacent to the IEC outlets.

The units are 19 inches long so may be horizontally mounted inside a rack if the Powercon version is used, or if there is sufficient space to route the inlet cable at the side of the rack strip. MDS units are constructed from steel and have three-hole mounting flanges at each end. All units have a dark grey finish.

#### INSTALLATION

The distribution unit should be fixed firmly in a 19" rack using suitable hardware. Appropriate attention **MUST** be paid to protective earthing of the rack itself.

#### Power supply wiring and input fuses

**THIS EQUIPMENT MUST BE INSTALLED BY  
SUITABLY QUALIFIED PERSONNEL**

**THIS EQUIPMENT MUST BE EARTHED.**

**DISCONNECT THE SUPPLY BEFORE REMOVING  
TOP COVER.**

**CE** The CE mark is applied to this product in respect of the Low Voltage Directive. This apparatus complies with the safety requirements of this Directive when used as intended in domestic, commercial, light industrial and similar general indoor use. It must not be subjected to splashing or dripping.

No user serviceable parts accessible. Only remove cover to fit or replace input cables on MDS3. Replacement mains fuses must be of a 250V rated European approved type with identical current and time characteristics.

#### 1) MDS1 - 3m lead.

Ensure that the lead is not damaged before connection. Connect lead to a suitable, fused supply capable of supplying 20A.

#### 2) MDS2 - Powercon

Using a suitably rated Powercon lead, connect to a fused 20A supply.

#### 3) MDS3 - Cable gland

Remove cover by unscrewing eight screws. Using a suitable, 2.5<sup>2</sup> mm cable, connect one end to the terminal block inside the unit. Ensure that the wiring is correct. Tighten cable gland on to the cable. Replace cover. Connect the other end of the cable unit to a fused supply capable of supplying 20A.

#### Power outlet wiring and fusing.

The power outlets should be cabled to the equipment to be powered using cable to suit both the load and the outlet's fuse.

#### FAULT CONDITIONS

Under normal operating conditions both neons should be illuminated.

If a front panel fuse fails because of a fault with the connected equipment then the appropriate fuse will fail and its associated neon will extinguish.



Remove the load and repair/replace the load equipment. Replace the front panel fuse with that stipulated (see Technical Specifications below.) Re-connect the load and check that the unit is functioning correctly.

*It is essential that any connected equipment is removed before any repair work commences.*

## LACING BARS

As IEC cable plugs vary enormously in size and design, it is not possible to define a wire retaining-clip which is universal. To overcome the challenge of securing all IEC connector types, both re-wireable and moulded, a double-rod lacing bar may be fitted. The stainless rods may be fitted in a variety of positions to take account of the size of the cable connector. This dual bar type is particularly suitable where connectors of different heights are inserted or where excess cable must be doubled back. An example would be when 'double ended', fixed length, moulded AC mains cords, such as the IEC-Lock types, are used.

## ALTERNATIVES

Dual 10A inlet versions are also available offering a convenient and space-saving method of distributing two independent power supplies from the same MDS unit where a backup supply or UPS is required. See: 'Canford MDS AC Mains Power Distribution Strips - Dual 10A - 14x IEC'. Other sizes and colours are available to special order. Switched, MCB, fused and filtered versions are under development and will become available as finalised.

## ACCESSORIES

### Connectors:

- 42-021 Powercon mains input cable connector (for MDS2)
- 42-153 IEC Mains male cable 10A
- 42-154 IEC Mains female cable 10A (if required for associated equipment)

### Cordsets:

- 42-3104 Mains cordset IEC-IEC (2m)

### Mains cable:

- 33-354 Flexible mains cable, 3 core, 2.5<sup>2</sup> mm, orange arctic, PVC.
- 33-351 Flexible mains cable, 3 core, 2.5<sup>2</sup> mm, black rubber

### Fasteners:

- 16-025/6 Rack mount fasteners
- 16-087 M6 bolt
- 16-085 Plastic cup washer

### Lacing Bar:

- 42-8108 Double rod lacing bar kit.

## TECHNICAL SPECIFICATION

<b>Input voltage:</b>	198 – 254 VAC	
<b>Output load:</b>	10A per group of seven outlets	
<b>Total load:</b>	20A per unit	
<b>Outlet fuses:</b>	10A(T) HBC ceramic, to BS 60127	
<b>Dimensions:</b>		
<b>Height:</b>	66.7mm (1.5U)	
<b>Width:</b>	483mm (19 inches)	
<b>Depth, no lacing bar:</b>	<b>MDS1 &amp; MDS3:</b> 49mm	<b>MDS2:</b> 56mm
<b>Depth, with lacing bar:</b>	163mm	
<b>Weight:</b>	1.7 Kg	