CANFORD MAINS DISTRIBUTION UNITS 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.

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, 2.5² 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.

TECHNICAL DATA SHEET

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

TECHNICAL SPECIFICATION

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

Weight: 1.7 Kg

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, 2.5² mm, orange arctic, PVC.
33-351	Flexible mains cable, 3 core, 2.5² 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.