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Technical Data Sheet

CANFORD MAINS DISTRIBUTION UNITS

MDU16 AC MDU 12X IEC OUT, POWERCON IN
MDU16S AC MDU 12X IEC OUT, POWERCON IN, SWITCH

DESCRIPTION

This range of twelve-way, locking IEC outlet, AC mains power distribution panels with a 20A Powercon inlet is housed in a compact 1U rackmount steel case. All versions have on the front panel an illuminated, power rocker switch or an un-switched, LED power-present indicator, fuse and dual-LED indication of power status for each of the output channels. Inlet and outlets are on the rear panel.

Care must be taken not to exceed the maximum total load of the MDU.

The fuses on the front panel have an adjacent green and red LEDs. Green illuminated indicates that the circuit is powered correctly. Red illuminated indicates that the fuse has failed.

Outputs are numbered front and rear for easy identification and a designation-strip holder with snap-on cover is fitted on the front panel. The paper strips supplied may be inserted before or after installation; 7.5mm of printable height is available. Templates for printing designation strip labels, available as a DWG file for AutoCAD and compatible applications, can be downloaded from the appropriate product page on the Canford website.

AVAILABLE VERSIONS

All versions have front panels that are finished in Dawn Grey or Black.

Standard (MDU16, MDU16S)

The front panel has an illuminated switch or un-switched LED power-present indicator, independent outlet fuses with status indicators.

	Switched	Sequential	Filtered
MDU16			
MDU16S	•		

Features by model

42-8362 MDU16 AC MDU 12 x Locking IEC out, Powercon in, green, black

42-8364 MDU16 AC MDU 12 x Locking IEC out, Powercon in, red, black

42-8366 MDU16S AC MDU 12 x Locking IEC out, Powercon in, switch, green, black

42-8368 MDU16S AC MDU 12 x Locking IEC out, Powercon in, switch, red, black

LACING BARS

As IEC cable plugs vary enormously in size and design it is not possible to define a 'universal' connector wire retaining clip. To overcome the challenge of securing all IEC connector types both re-wireable and moulded, a single lacing-bar is fitted as standard. The stainless rods may be fitted in a variety of positions to take account of cable connector size. An additional rod may be ordered separately and fitted, which 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.

INSTALLATION

THIS EQUIPMENT MUST BE INSTALLED BY SUITABLY QUALIFIED PERSONNEL

WARNING

HIGH LEAKAGE CURRENT
EARTH CONNECTION ESSENTIAL
BEFORE CONNECTING MAINS VOLTAGES
THIS EQUIPMENT MUST BE EARTHED.
DISCONNECT THE SUPPLY BEFORE REMOVING TOP COVER.

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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.

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. Using a suitable, 2.5^2 mm cable, connect one end to the earthing post on the rear of the unit. Connect the other end to permanent independent earth.

POWER WIRING AND FUSING

Replacement mains fuses must be of a 250V rated European approved type with identical current and time characteristics.

The power outlets should be cabled to the equipment to be powered using cable to suit both the load and the outlet's fuse. The fuses supplied limit the maximum output from each connector to 10 amps. This fuse rating should not be exceeded, however, smaller values may be used. Before the fuses are changed, power to the unit should be disconnected. Replace fuses only with HBC ceramic types to BS EN60127. Fuse values should be chosen to protect the cable used to wire to the powered equipment.

The power inlet should be connected using 2.5mm^2 cable from a suitably rated and fused supply.

THIS EQUIPMENT MUST BE EARTHED

FAULT CONDITIONS

Under normal operating conditions the "Power Input" LED or mains rocker switch should be illuminated. All channel "Output" LEDs should be green, whether or not a load is present.

If a front panel fuse fails because of a fault with the connected equipment the LED will illuminate red.

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.

Note that even if the panel fuse fails there will still be approximately 100V appearing on the output connector. This is limited to a few milliamps, however. It is essential that any connected equipment is removed before any repair work commences.

MATING CONNECTORS

Mating connectors are NOT included and should be ordered separately as required.

Mains output connectors:	42-153 (Bulgin)
	42-054 (Schurter)
Mains input connector:	42-021 NAC3FCA

Moulded mains leads: A large range are offered, see AC Mains Power Leads.

Locking, moulded, mains leads: Patented, locking IEC leads, see AC Mains Power Leads - IEC-Lock.

MAINS CABLE

33-354 Flexible mains cable, 3 core, 2.5^2 mm, orange arctic, pvc.

ACCESSORIES

Switch guard plates:	42-0001	Grey
	42-0002	Black
Additional Lacing Bar Kit:	42-0005	

Fasteners:

16-023 to 16-085	Rack mount fasteners
16-087	M6 bolt
16-085	Plastic cup washer

Spare Fuses:

42-281 (Pack of 10)	20mm HBC Delay 10A

Spare designation-strip inserts

Label	45-3082
Clear cover	45-3092

TECHNICAL SPECIFICATION

Input voltage:	198 – 254 VAC
Output load:	10A per outlet
Total load:	20A (Unswitched) 16A (Switched)
Outlet fuses:	10A(T) HBC ceramic, to BS 60127
Max in-rush current:	100A for MDU-S versions

Dimensions and weight:

	Depth excluding lacing-bar	Depth including lacing-bar	Weight (maximum)
Standard	130mm	230mm	1.7kg

All types are 1U, 19-inch rack mounting, 44 x 483 (h x w) mm.

NOTES