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Technical Data Sheet

CANFORD MAINS DISTRIBUTION UNITS

MDU10 AC MDU 12x Powercon out, Powercon 32 amp in

DESCRIPTION

This range of twelve-way, powercon outlet, AC mains power distribution panels, with a 32 amp, Powercon locking inlet, is housed in a compact 1U rackmount steel case. All versions have on the front panel an un-switched, neon 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.

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

Usage note: The 32 amp input connector is 'without breaking capacity' as defined in IEC 61984, and must not be engaged or disengaged when under load or live.

The fuses on the front panel have adjacent red and green 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.

Standard (MDU10)

The front panel has an un-switched neon indicator and independent outlet fuses with status indicators. The rear panel has a 32 amp Powercon locking inlet connector and twelve Powercon outlet connectors. An earth stud is fitted.

42-9302 CANFORD MDU10 AC MDU 12x Powercon out, Powercon 32 amp in, green, black

42-9404 CANFORD MDU10 AC MDU 12x Powercon out, Powercon 32 amp in, red, black

LACING BARS

A single-rod lacing-bar is fitted, which can be moved to an alternative fixing position if desired.

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.

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 6mm^2 cable.

THIS EQUIPMENT MUST BE EARTHED

The distribution units should be provided with an adequate mains power supply.

FAULT CONDITIONS

Under normal operating conditions the "Power Input" LED 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.

Input connectors: Neutrik Powercon type, NAC3FC-HC, stock code 42-026.

Output connectors: Neutrik Powercon type NAC3FCB, stock code 42-022.

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: 33-340 Flexible mains cable, 3 core, 1.5^2 mm, black arctic, pvc.

33-371 Flexible mains cable, 3 core, 6^2 mm, black rubber

ACCESSORIES

Additional Lacing Bar Kit: 42-0005

Fasteners: Rack mount fasteners 16-023 to 16-085

M6 bolt 16-087

Plastic cup washer 16-085

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:	32A
Outlet fuses:	10A(T) HBC ceramic, to BS 60127

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