



## Technical Data Sheet

### CANFORD MAINS DISTRIBUTION UNITS

**MDU8** 14 x IEC outlet, Powercon inlet and Powercon loop-out, without switch

**MDU8S** 14 x IEC outlet, Powercon inlet and Powercon loop-out, with switch

#### DESCRIPTION

This range of fourteen-way, IEC outlet, AC mains power distribution panels, are housed in a compact 1U rackmount steel case. The loop-out feature provides an un-switched, direct loop-through power outlet to supply equipment that must remain powered when the MDU is switched off, or to supply to a second MDU. All versions have on the front panel an illuminated, power rocker switch or 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: Current drawn from the 'loop-output' must be included in the total current calculation. 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 (and green off) 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

This range is available with grey or black front panel, with either red or green illuminated switch or 'input power present' neon indicator on the front panel.

42-9382 CANFORD MDU8 AC MDU 14 x IEC out, Powercon inlet and Powercon loop-out, green neon, black panel

42-9384 CANFORD MDU8 AC MDU 14 x IEC out, Powercon inlet and Powercon loop-out, red neon, black panel

42-9386 CANFORD MDU8 AC MDU 14x IEC out, Powercon inlet and Powercon loop-out, green power switch, black panel

42-9388 CANFORD MDU8S AC MDU 14x IEC out, Powercon inlet and Powercon loop-out, red power switch, black panel

#### LACING BARS

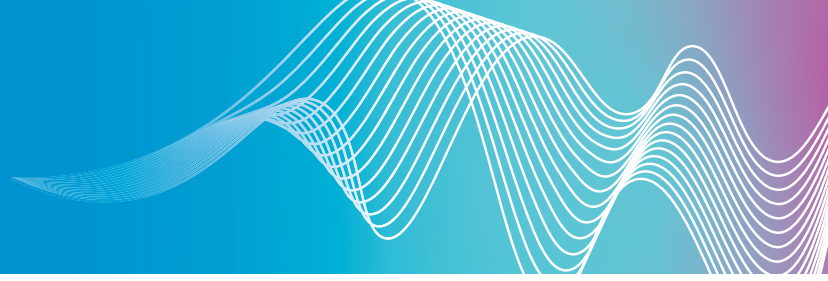
As IEC cable plugs vary enormously in size and design it is not possible to define a 'universal', wire, connector-retaining clip. To overcome the challenge of securing all IEC connector types both re-wireable and moulded, a single lacing-bar is fitted as standard. The stainless rods may be fitted in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



## Supply wiring and fusing

The distribution unit should be fixed firmly in a 19" rack using suitable hardware.

The earth terminal on the rear of the unit **MUST** be wired to a permanent earth using 2.5mm<sup>2</sup> green/yellow cable.


The distribution units should be provided with an adequate mains power supply. The mains input supply should be fed via a 2.5mm<sup>2</sup> 3-core mains cable (minimum) from a 20A fused source for the non-switched versions and a 16A fused source for the switched versions.

## Output wiring and fusing

No user serviceable parts accessible. Do not remove covers. 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.

## CE Marking

 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.

## FAULT CONDITIONS

Under normal operating conditions the "Power Input" neon 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

### Connectors:

**Input connector:** Neutrik Powercon type, NAC3FCA, stock code 42-021

**Loop-out connector:** Neutrik Powercon type NAC3FCB, stock code 42-022.

**Output connectors:** Bulgin, stock code 42-153  
Schurter stock-code 42-054

### Cordsets:

**IEC Moulded mains leads:** see AC Mains Power Leads – IEC

**Powercon input leads:** see AC Mains Power Leads – Powercon 20 amp

### Mains cable:

33-330 Flexible mains cable, 3 core, 1.25mm<sup>2</sup>, black arctic, pvc.

33-354 Flexible mains cable, 3 core, 2.5mm<sup>2</sup>, black arctic, pvc.

### Fasteners:

16-023 to 16-085 Rack mount fasteners

16-087 M6 bolt

16-085 Plastic cup washer

### Lacing Bar Kit:

42-0005 CANFORD LACING BAR KIT Additional, for MDU AC mains distribution unit

### Spare designation-strip inserts:

Label 45-3082

Clear cover 45-3092

## TECHNICAL SPECIFICATION

<b>Input voltage:</b>	198 – 254 VAC
<b>Output load:</b>	10A per outlet
<b>Total load:</b>	Switched load: 16A, loop-outlet 20A Un-switched load: 20A, loop-outlet 20A
<b>Outlet fuses:</b>	10A(T) HBC ceramic, to BS 60127
<b>Max in-rush current:</b>	100A (MDU8S 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.

