



## Technical Data Sheet

### CANFORD MAINS DISTRIBUTION UNITS - ECONOMY

**MDU1** 15 X IEC OUTLET, IEC INLET AND IEC LOOP-OUT, WITH OR WITHOUT SWITCH.

**MDU2** 15 X IEC OUTLET, POWERCON INLET AND POWERCON LOOP-OUT, WITH OR WITHOUT SWITCH

#### DESCRIPTION

This range of economy, fifteen-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, LED power-present indicator, fuse and bi-colour 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 bi-colour LED. 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

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

42-9112 CANFORD MDU1 AC MDU 15x IEC out, IEC Inlet and IEC Loop-out, green power led

42-9114 CANFORD MDU1 AC MDU 15x IEC out, IEC Inlet and IEC Loop-out, red power led

42-9116 CANFORD MDU1S AC MDU 15x IEC out, IEC Inlet and IEC Loop-out, green power switch

42-9118 CANFORD MDU1S AC MDU 15x IEC out, IEC Inlet and IEC Loop-out, red power switch

42-9122 CANFORD MDU2 AC MDU 15x IEC out, Powercon inlet and Powercon loop-out, green power led

42-9124 CANFORD MDU2 AC MDU 15x IEC out, Powercon inlet and Powercon loop-out, red power led

42-9126 CANFORD MDU2S AC MDU 15x IEC out, Powercon inlet and Powercon loop-out, green power switch

42-9128 CANFORD MDU2S AC MDU 15x IEC out, Powercon inlet and Powercon loop-out, red power switch

#### LACING BARS

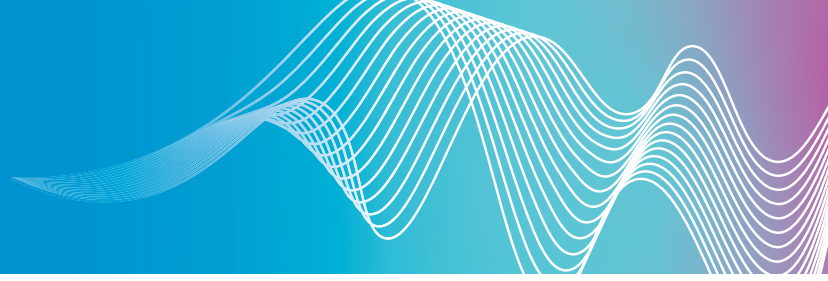
As IEC cable plugs vary enormously in size and design it is not possible to define a 'universal', wire, connector-retaining clip. To overcome the challenge of securing all IEC connector types both re-wireable and moulded, a single lacing-bar is fitted as standard. The stainless rods may be fitted in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

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.



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.

## POWER 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.

## 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 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*

## ACCESSORIES

### Connectors:

#### MDU1

**Input connector:** Bulgin, stock code 42-154,  
Schurter, stock code 42-051  
IEC-Lock, stock-code 42-3200

**Loop-out connector:** Bulgin, stock code 42-153  
Schurter, stock-code 42-054

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

#### MDU2

**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:

**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 or see AC Mains Power 42-021

#### Mains cable:

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

33-354 Flexible mains cable, 3 core, 2.5<sup>2</sup> mm, 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>	10A (MDU1, MDU1S) 20A (MDU2, MDU2S)
<b>Outlet fuses:</b>	10A(T) HBC ceramic, to BS 60127
<b>Dimensions:</b>	483(w) mm x 1U(h) 130(d) mm (excluding lacing bar) 230(d) mm (including lacing bar)
<b>Weight:</b>	1.7Kg

