



## CANFORD MDU3 AC MAINS POWER DISTRIBUTION UNIT - 12x IEC outlet - 3m fixed lead inlet

This range of twelve-way, IEC outlet, AC mains power distribution panels with a 20 amp, unterminated, orange, fixed-lead inlet is housed in a compact 1U rackmount case. All versions have on the front panel an illuminated power rocker switch or an unswitched 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. Versions with sequential switch-on, with filtered inlet, and with both sequential switch-on and filtered inlet, are available.

The fuses on the front panel have 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.

All 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. Autocad templates for printing designation strips are available for download from the Tech Zone at [www.canford.co.uk](http://www.canford.co.uk) or by contacting Technical Support. Spare designation-strip inserts (not suitable for printers) 45-3082 and spare clear covers 45-3092 are available.

These units can be supplied with inlet cable terminated with 16 amp plugs, to special order.

### 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.

### Standard

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

The rear panel has a 20 amp, unterminated, orange, fixed-lead inlet and twelve 10 amp IEC outlets. An earth stud is fitted.

Note: Switched versions - maximum total load: 16 amps.

Un-switched versions - maximum total load: 20 amps.

### Sequential Switch-on

These are as the standard type but, in addition, to avoid overloading the supply, the outputs are sequentially switched on when power is applied. This delay is vital where a number of pieces of equipment drawing a high 'inrush' current, such as CRTs, power amplifiers or equipment fitted with switch-mode power supplies, are connected to a single MDU. This sequential solution may also be used to switch on equipment in an audio installation prior to the power amplifier to avoid 'clicks' and possible damage to loudspeakers.

The delay between successive outputs is preset at 300mS, but an internal control allows adjustment between approximately 30mS and 660mS. Outputs are switched using relays controlled from a microprocessor. The top cover is user-removable to access the sequential switch-on delay adjustment control.

### Filtered

These are as the standard type with a high-performance filter, fitted internally, that helps to protect sensitive electronic components connected to the MDU against mains-borne interference and to reduce the audible effects of spikes and dips in the mains supply.

### Sequential Switch-on Plus Filtered

These versions combine the features of the Sequential switch-on and Filtered types.

All types are available finished in Dawn Grey or Black front panels, with either red or green illuminated switch or 'input power present' neon indicator on the front panel.

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

Required accessories:

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

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'.

Optional accessories:

Switch guard plates, see below.

Additional lacing bar kit.

### Technical Specification:

|                          |                                     |
|--------------------------|-------------------------------------|
| Voltage:                 | 198-254V AC                         |
| Maximum outlet load:     | 10A per outlet                      |
| Maximum total load:      | Switched 16A, un-switched 20A.      |
| Outlet fuses:            | 10A (T) HBC ceramic, to BS EN 60127 |
| Maximum in-rush current: | 100A (MDU-S versions)               |

**Dimensions and weight:**

|                       | Depth excluding lacing-bar | Depth including lacing-bar | Weight (maximum) |
|-----------------------|----------------------------|----------------------------|------------------|
| Standard              | 130mm                      | 230mm                      | 1.7kg            |
| Sequential            | 250mm                      | 350mm                      | 4.0kg            |
| Filtered              | 250mm                      | 350mm                      | 4.0kg            |
| Sequential & Filtered | 250mm                      | 350mm                      | 4.0kg            |

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

**Switch Guard Plates**

A switch guard-plate may be fitted at the time of installation or retrospectively to Canford MDUs to avoid units being accidentally switched off (or on). The central cut-out gives finger access and a clear view of the illuminated switch. Note: 12-way and 14-way MDUs require different switch guards. Available in Dawn Grey or Black.

|         |   |
|---------|---|
| 42-9331 | CANFORD MDU3 AC MAINS POWER DISTRIBUTION UNIT Green, grey                             |
| 42-9332 | CANFORD MDU3 AC MAINS POWER DISTRIBUTION UNIT Green, black                            |
| 42-9333 | CANFORD MDU3 AC MAINS POWER DISTRIBUTION UNIT Red, grey                               |
| 42-9334 | CANFORD MDU3 AC MAINS POWER DISTRIBUTION UNIT Red, black                              |
| 42-9335 | CANFORD MDU3S AC MAINS POWER DISTRIBUTION UNIT Switch, green, grey                    |
| 42-9336 | CANFORD MDU3S AC MAINS POWER DISTRIBUTION UNIT Switch, green, black                   |
| 42-9337 | CANFORD MDU3S AC MAINS POWER DISTRIBUTION UNIT Switch, red, grey                      |
| 42-9338 | CANFORD MDU3S AC MAINS POWER DISTRIBUTION UNIT Switch, red, black                     |
| 42-9431 | CANFORD MDU3Q AC MAINS POWER DISTRIBUTION UNIT Sequence, green, grey                  |
| 42-9432 | CANFORD MDU3Q AC MAINS POWER DISTRIBUTION UNIT Sequence, green, black                 |
| 42-9433 | CANFORD MDU3Q AC MAINS POWER DISTRIBUTION UNIT Sequence, red, grey                    |
| 42-9434 | CANFORD MDU3Q AC MAINS POWER DISTRIBUTION UNIT Sequence, red, black                   |
| 42-9435 | CANFORD MDU3SQ AC MAINS POWER DISTRIBUTION UNIT Switch sequence, green, grey          |
| 42-9436 | CANFORD MDU3SQ AC MAINS POWER DISTRIBUTION UNIT Switch sequence, green, black         |
| 42-9437 | CANFORD MDU3SQ AC MAINS POWER DISTRIBUTION UNIT Switch sequence, red, grey            |
| 42-9438 | CANFORD MDU3SQ AC MAINS POWER DISTRIBUTION UNIT Switch sequence, red, black           |
| 42-9531 | CANFORD MDU3F AC MAINS POWER DISTRIBUTION UNIT Filter, green, grey                    |
| 42-9532 | CANFORD MDU3F AC MAINS POWER DISTRIBUTION UNIT Filter, green, black                   |
| 42-9533 | CANFORD MDU3F AC MAINS POWER DISTRIBUTION UNIT Filter, red, grey                      |
| 42-9534 | CANFORD MDU3F AC MAINS POWER DISTRIBUTION UNIT Filter, red, black                     |
| 42-9535 | CANFORD MDU3SF AC MAINS POWER DISTRIBUTION UNIT Switch filter, green, grey            |
| 42-9536 | CANFORD MDU3SF AC MAINS POWER DISTRIBUTION UNIT Switch filter, green, black           |
| 42-9537 | CANFORD MDU3SF AC MAINS POWER DISTRIBUTION UNIT Switch filter, red, grey              |
| 42-9538 | CANFORD MDU3SF AC MAINS POWER DISTRIBUTION UNIT Switch filter, red, black             |
| 42-9631 | CANFORD MDU3QF AC MAINS POWER DISTRIBUTION UNIT Sequence filter, green, grey          |
| 42-9632 | CANFORD MDU3QF AC MAINS POWER DISTRIBUTION UNIT Sequence filter, green, black         |
| 42-9633 | CANFORD MDU3QF AC MAINS POWER DISTRIBUTION UNIT Sequence filter, red, grey            |
| 42-9634 | CANFORD MDU3QF AC MAINS POWER DISTRIBUTION UNIT Sequence filter, red, black           |
| 42-9635 | CANFORD MDU3SQF AC MAINS POWER DISTRIBUTION UNIT Switch sequence filter, green, grey  |
| 42-9636 | CANFORD MDU3SQF AC MAINS POWER DISTRIBUTION UNIT Switch sequence filter, green, black |
| 42-9637 | CANFORD MDU3SQF AC MAINS POWER DISTRIBUTION UNIT Switch sequence filter, red, grey    |
| 42-9638 | CANFORD MDU3SQF AC MAINS POWER DISTRIBUTION UNIT Switch sequence filter, red, black   |
| 42-0005 | CANFORD MDU AC MAINS DISTRIBUTION UNIT Additional lacing bar kit                      |
| 42-0001 | CANFORD AC MAINS POWER DISTRIBUTION UNIT SWITCH GUARD For 12 way, grey                |
| 42-0002 | CANFORD AC MAINS POWER DISTRIBUTION UNIT SWITCH GUARD For 12 way, black               |