



## Power Distribution Products

### MDU-14-AS



### Specification for Auto Switch MDU.

#### Features

Inlet options	2 x Neutrik powerconn or 2 x Hardwired
Power Switch	Single illuminated rocker only or Less switch version
Number of outlets	14

#### Status Indicators

Power Present inlet 1 (Main)	Green LED
Inlet 1 (Main) selected	Green LED
Power Present inlet 2 (Backup)	Red LED
Inlet 2 (Backup) selected	Red LED
Priority to inlet 1 (Main) – Auto reset	Green LED

## Controls

Manual reset to inlet 1 (main)	momentary pushbutton – front panel location
Manual / Auto reset selection	Latching pushbutton – front panel location – access through hole!
Test (force selection of inlet 2 backup)	Momentary pushbutton – front panel location – access through hole!

## Remote Control & Alarm fail output

Connector type	9 way "D" Female on flying lead - via rear panel
Inlet 1 (Main) fail	isolated relay contacts N/O & N/C & COM
Inlet 2 (Backup) fail	isolated relay contacts N/O & N/C & COM
Remote reset control	Momentary 12 VDC input 20mA – reverse polarity protected

## Specification

### Change over switch

Type	High power Solid State relay DPCO
Maximum current rating	50A RMS
Maximum peak current	850Apk (16.6mS) 810Apk (20mS)
Maximum voltage rating	480VAC
Transient over voltage	1200Vpk
Maximum turn-on time	20mS Zero voltage sensing to minimise EMI/RFI
Maximum turn-off time	50mS Zero current sensing to minimise EMI/RFI
Transient Protection	Output Snubber circuit
Maximum on state voltage drop	3.4V total
Maximum off state leakage current	1mA
Minimum load current	Any
Operating temperature range	-40 deg C to +80 deg C

### Control Logic

Logic operating voltage	240VAC
Device type	240VAC coil DPDT relays
Error/false state protection	anti – overlap blocking
Maximum turn-on time	12mS
Maximum turn-off time	8mS
Coil resistance	32,500 Ohms
Operating temperature range	-40 deg C to +85 deg C
Operation mode 1	First come – first served (manual reset) Forced reset when first powered up

Operation mode 2 Priority to inlet 1 – main (auto reset)

## Overall

Maximum change over time	50mS Zero voltage sensing to minimise EMI/RFI
Operating Voltage range	240VAC version (216VAC to 264VAC) 120VAC version (90VAC to 132VAC)
Operating temperature range	-20 deg C to +75 deg C
Maximum Voltage present on unpowered inlet	L-N = 0.5 VAC @ 0.25mA N-E = 8VAC @ 3.33mA L-E = 8VAC @ 3.33mA
Maximum load (power switch version)	16A RMS
Maximum load (no power switch version)	16A RMS
Residual Earth current	Zero mA (with no equipment connected to outlets)
Inlet filtering	100nF Capacitor, X2 rated EN132400 per inlet
Outlet filtering	1 x 100nF Capacitor, X2 rated EN132400
Depth including tie bar	395mm approx
Depth excluding tie bar	300mm approx.
Width	438mm (19 Inch)
Height	44.5mm (1U Rack-mount)
Weight	3.7Kg approx.

## Performance

The switch over circuit has been tested whilst connected to a PC with programs running with no adverse effects even with multiple change-overs within short succession.

## Future Development Program:

It is our intention to offer the Auto Switch facility on the following versions:

1. Standard, single power switch MDU
2. Sequence start MDU
3. Network controlled MDU
4. As a stand-alone version to enable Auto Switch upgrades to existing installations.

**One-4-Power Ltd.**  
No. 2 Sorrel Close  
Burghfield Common  
Reading  
Berkshire  
RG7 3YS

Tel: 0118 9835498  
FAX: 0118 9835498

[www.one4power.co.uk](http://www.one4power.co.uk)

email: [sales@one4power.co.uk](mailto:sales@one4power.co.uk)