



**14 way mains distribution units**  
**MDU14-B-32A Power Standard**  
**MDU14-B Power Standard (16A)**

**Manual**

**Television Systems Limited.**  
Vanwall Road, Maidenhead, Berkshire, SL6 4UB  
Telephone +44 (0)1628 676200, FAX +44 (0)1628 676299

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## SAFETY

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### 1.0 Installation.

Unless otherwise stated TSL equipment may be installed at any angle or position within an operating temperature range of 5° ~ 30° C.

This equipment is intended for use by suitably qualified personnel only.

All TSL equipment conforms to the EC Low Voltage Directive:

EC Low Voltage Directive (73/23/EEC)(OJ L76 26.3.73)(LVD). Amendment: (93/68/EEC) (OJ L220 30.8.93).
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#### CAUTION:

Always disconnect equipment connected to a powered MDU before performing any maintenance.

#### Earthing/Grounding

In all cases, the frame of the equipment must be earthed on installation. Connection to an earthed strip running the length of the frame is ideal.

The earth pin on the mains inlet connector is connected to the metal frame of the equipment, to 0 volts on the internal DC PSU and to signal ground, unless otherwise stated. All metal panels are bonded together. Rack mounted equipment must be earthed (grounded).

#### Mounting

Careful consideration of the equipment location and mounting in racks must be made. In particular, consideration must be given to the stability of free-standing racks by mounting heavy equipment low in the rack. The rear of the unit should be supported in the rack.

#### Power

This equipment is designed for installation in any position in a rack.

Consideration must be given to the supply circuit loading and switch on/fault surges that will affect overcurrent protection trips and switches etc.

Check that the fuse rating is correct for the local power (mains) supply. Replacement fuses must be of the same rating and type for continued protection against fire risk.

For individual high loads ensure that outputs are distributed evenly across the rear of the MDU.

The equipment rating is shown on the rear panel.

No power supply cord is provided with this equipment but the inlet connector is.

*Do not switch on until all connections are made.*

#### Ventilation

Due consideration for cooling requirements must be given when mounting the equipment.

#### General

If equipment is installed in a closed unit, consideration must be given to providing forced air cooling in order that the maximum recommended temperature is not exceeded.

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## **WARRANTY, MAINTENANCE AND REPAIR**

All TSL equipment is guaranteed for one year from the date of delivery to the customer's premises. If the equipment is to be stored for a significant period, please contact TSL concerning a possible extended warranty period.

### **Failure during warranty**

If any TSL product should fail or become faulty within the warranty period, first please check the PSU fuses.

All maintenance work must be carried out by trained and competent personnel.

If equipment has to be returned to TSL for repair or re-alignment, please observe the following overleaf:

### **Technical support information**

E-Mail address: [support@tsl.co.uk](mailto:support@tsl.co.uk)

Telephone Support Number for the UK and Europe: +44 (0)1628 670000

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## **TSL Returns Procedure**

Please telephone +44 (0)1628 676200 (Fax: +44 (0)1682 676299) and ask for Sales who will provide a Returns Number. This will enable us to track the unit effectively and will provide some information prior to the unit arriving.

For each item, this unique Returns Number must be included with the Fault Report sent with the unit.

A contact name and telephone number are also required with the Fault Report sent with the unit.

### **Fault report details required.**

- Company:
- Name:
- Address:
- Contact Name:
- Telephone No:
- Returns Number:
- Symptoms of the fault (to include switch setting positions, input signals etc):

### **Packing**

Please ensure that the unit is well packed as all mechanical damage is chargeable. TSL recommends that you insure your equipment for transit damage.

The original packaging, when available, should always be used when returning equipment..

**If returned equipment is received in a damaged condition, the damage should be reported both to TSL and the carrier immediately.**



### EC DECLARATION OF CONFORMITY

Application of Council Directives Nos:  
EC Low Voltage Directive (73/23/EEC)(OJ L76 26.3.73)(LVD).  
Amendment: (93/68/EEC) (OJ L220 30.8.93).  
Conformity Standards Declared:  
EN 60950

EMC Directive: 89/336/EEC, Amended 92/31/EEC.  
Conformity Standards Declared:  
EN 50081-1, EN 50082-1

Manufacturer's Name: Television Systems Ltd  
Manufacturer's Address: Vanwall Road  
Maidenhead SL6 4UB  
United Kingdom

Type of Equipment: Mains Distribution Unit

Model No: Power Standard

Part Numbers: MDU14-B and MDU14-B-32A

Date CE Mark Affixed: 2011

I, the undersigned, declare that the equipment specified above conforms to the quoted Directives and Standards.

Place: Maidenhead, England

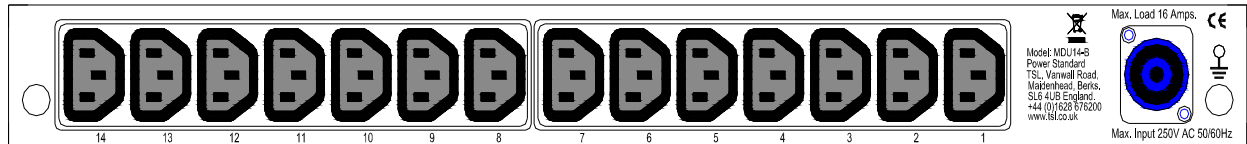
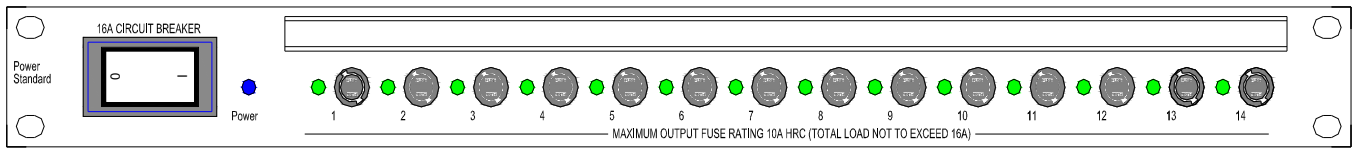
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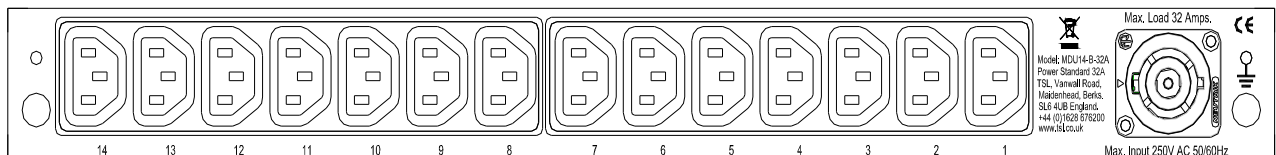
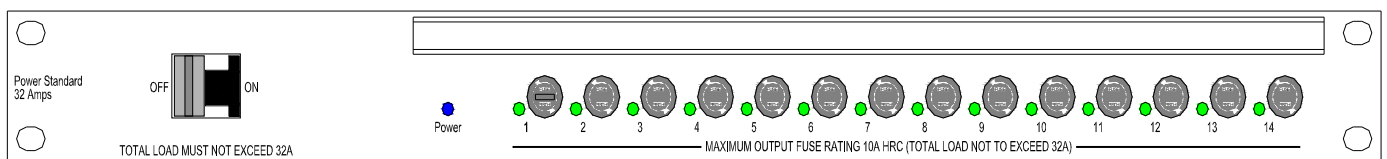
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Position: PRODUCT MANAGER \_\_\_\_\_

## 16 Amp & 32 Amp Power Standard Mains Distribution Units



Front & rear of 16A version.



Front & rear of 32 Amp version.

## 2.0 Description

### Features:

- 19" 1RU.
- 32 Amp MCB 1 pole./16A 2 pole Thermal circuit breaker for non 32A version.
- 14 Fused IEC outlets.
- LED Indication
  - Power - Blue - Power applied to the unit.
  - Output LEDs 1-14
  - Green - Circuit on and fuse OK
  - Off – Circuit fuse has failed
- Cable tie bar.
- Front panel ident strip.

These 1RU units are designed to fit into a rack in any position. The inlet is via a Neutrik NAC3MP-HC connector for the 32A version or NAC3FCA for the 16A version. A free cable mounted connector is supplied with each unit.

32 Amp unit - A 32 A MCB (Miniature Circuit Breaker) with a manual override switch is fitted.

16 Amp unit - A 16 A TCB (Thermal over current Circuit Breaker) with a manual override switch is fitted.

The 14 rear IEC outlets are via 10A fuses located on the front panel for both versions.

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### 3.0 Operation

This equipment is intended for use by suitably qualified personnel only. Once all the input and output connections are made to the MDU then switch the unit on by the front panel switch. This supplies power to all the outputs immediately and all the front panel leds will light showing the unit is on. The blue led lights when the front panel switch/breaker is switched on, showing that there is power on the unit. The green leds stay lit as long as the fuse for that particular circuit is good. The led goes off if a fuse fails.

### 4.0 Pin-outs

#### Input

Neutrik Powercon connector – L – Brown (Phase), N – Blue (Neutral), E – Green/Yellow (Earth or Ground).

### 5.0 Specifications

<b>Input</b>	110-240V AC 50/60Hz Max load 16A or 32A (dependant on model)
Connector 16A	Neutrik NAC3FCA 20 Amp 250 VAC
Connector 32A	Neutrik NAC3MP-HC 32A 250VAC
Circuit Breaker 16A Approvals	Double pole thermal protection 16A. VDE, CSA, UL, BV, CCC.
Circuit Breaker 32A Approvals	MCB 32A, 1 Pole, Tripping type B. BS EN60898, IEE.
<b>Output</b>	110-240V AC Max load 10A per outlet, fused on front panel.
Connectors	14 x IEC 3 pin
Fuses	10A 250V AC Ceramic Anti surge 20mm