



## Norbain SD

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**24V AC**

**POWER SUPPLY**

**VPSU2488INTe MANUAL**

**24V AC 8A (8 x 1A PTC FUSED OUTPUT)**

**Thank you for choosing this high quality 24V ac 8A power supply. Before attempting to connect or operate this product please make sure you carefully read these instructions for your safety.**

### General:

A 24V ac power supply capable of delivering fully rated current to load, housed within a low profile metal enclosure it is suitable for internal use only. It is provided with 8 individually PTC fused outputs ideal for low powered CCTV installations.

### INSTALLATION AND SET-UP

This unit is only suitable for installation as permanently connected equipment and **MUST** be fed from a mains power source having a separate (approved) disconnect device - fitted with a fuse or other over-current protection device rated at 3A maximum. Ensure that the disconnect device used has appropriate earth fault protection to the applicable standard.

The enclosure is **NOT SUITABLE** for external use; bushings should meet a minimum flammability specification of UL94 HB.

The PSU should be installed according to all relevant safety regulations.

- 1) Fix to wall or other support structure using the screws/fixings supplied or use appropriate types for the surface it is being mounted to.
- 2) Mains input cable must be to the applicable standard with a 3A or greater current capacity, having a minimum operating voltage of 300/500 Vac.
- 3) The low voltage output cable must be correctly sized to carry the rated load current to the devices connected to the PSU.
- 4) Mains input and low voltage output cables should be routed to use different entry/exit holes in the enclosure.
- 5) To comply with current BS EN60950 safety legislation the supplied cable ties must be used to secure mains input and low voltage output wiring.

## OPERATION

This unit is intended for use by Service Personnel only - There are NO USER SERVICEABLE parts inside.

## MAINTENANCE

There is no regular maintenance required of this PSU.

If the output of the PSU fails the cause of the failure should be investigated e.g. short circuit load. The fault should be rectified before restoring power to the PSU. The PTC fuses used in this product will reset automatically once the fault has been rectified.

## DISPOSAL OF PRODUCT AT END OF LIFE

This product falls within the scope of EU Directives 2012/19/EU Waste Electrical and Electronic Equipment (WEEE). At the end of life, the product must be separated from the domestic waste stream and disposed via an appropriate approved WEEE disposal route in accordance with all national and local regulations.

For more information see: [www.recyclethis.info](http://www.recyclethis.info)

## SPECIFICATION

### Input

|                       |                               |
|-----------------------|-------------------------------|
| Voltage               | 230V ac nominal (+10% / -15%) |
| Frequency             | 50Hz                          |
| Fuse (terminal Block) | T3.15A - 20mm 230V HRC Type   |

### Output

|                    |                                                                                   |
|--------------------|-----------------------------------------------------------------------------------|
| Nominal Voltage    | 24V ac (@ 230V ac input)                                                          |
| Voltage Range      | 23V ac to 28V ac (on full load to off load @ 230V ac)                             |
|                    | <i>Note: Please factor this load 'Voltage variance' in when designing systems</i> |
| Output Fuses (x 8) | PTC (auto resetting)                                                              |
|                    | Holding Current: 900mA (@ 20°C Ambient)                                           |
|                    | Trip Current: 1.8A (@ 20°C Ambient)                                               |

### Physical

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| Environment          | -10 to +40°C (operating) 95% RH non-condensing<br>-20 to +80°C (storage) |
| Enclosure Dimensions | 300H x 240W x 55D (mm)                                                   |
| Type                 | Key lock (provided with 2 keys)                                          |
| Weight               | Approx 4.2Kg                                                             |

## CONNECTIONS

### Input

|   |                             |
|---|-----------------------------|
| L | Mains Input: Live (Brown)   |
| E | Earth (Green/Yellow)        |
| N | Mains Input: Neutral (Blue) |

### Outputs 1 - 8

|   |                               |
|---|-------------------------------|
| + | 24V ac @ 1A max (no polarity) |
| - |                               |

## LOCAL INDICATORS

### 8-way Fused Output Module







|             |               |
|-------------|---------------|
| Red LED on  | Healthy       |
| Red LED off | Fault Present |

## COMPLIANCE

This product meets the essential requirements of the following EU Directives:

|              |            |
|--------------|------------|
| Low Voltage: | 2014/35/EU |
| EMC:         | 2014/30/EU |
| RoHS2:       | 2011/65/EU |
| WEEE:        | 2012/19/EU |

### Explanation of symbols: *(Not all may apply)*

|                                                                                     |                  |                                                                                     |                                               |                                                                                     |                                     |
|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|
|  | Fault Indication |  | Shock Risk - isolate before attempting access |  | Certification Level                 |
|  | Mains Present    |  | Protective Earth                              |  | Do not dispose of in unsorted waste |

Specifications subject to change without notice

