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12Vdc 18A Rack mount CCTV SMPSU

Model:

VRS1218000-18
18 x 1A PTC Fused Outputs

- 1.5U 19" rack enclosure
- High efficiency electronics for reduced running costs and lower operating temperatures
- Continuous full rated current to load
- Channel 'Health' LED's on front panel
- Power 'On' indication
- Vented steel enclosure
- Adjustable output voltage

- Can be rack, wall or desk mounted
- Individually self-resetting PTC Fused Outputs
- Supplied with mains IEC lead
- Full electronic short circuit and overload protection on load output
- Mains transient protection circuit
- Output screw terminals on rear of unit

FEATURES

The VRS1218000-18 is a 19" rack mounted, 12V dc high efficiency cost effective power supply, ideal for use in CCTV applications. Housed within a 1.5U high enclosure it can provide up to 18 individually 1A fused outputs protected by resettable PTC fuses. It features a regulated 12V dc Switch Mode Power Supply module that continuously supplies full rated current to load. The highly efficient switch mode design generates less heat and ensures low operating costs. If not being installed within a rack environment there are fixing points for wall mounting or rubber feet for a desk mounted option.

OPERATION

This unit is intended for use by Service Personnel only.

The Power LED will be illuminated whilst there is a mains supply, the 18 output channel LED's on the front panel indicate healthy channels.

INSTALLATION AND SET-UP

This unit is only suitable for installation as permanently connected equipment. The PSU is *NOT SUITABLE* for external installation. *EQUIPMENT MUST BE EARTHED*. Before installation, ensure that external disconnect device is *OFF*. The PSU should be installed according to all relevant safety regulations applicable to the application.



MOUNTING

- For rack mounting, connect the two supplied rack mounting lugs using the 4 screws provided.
 If installing within a rack it is advised to allow airflow around the vented enclosure.
- 2. For wall mounting remove the PSU cover to access the keyhole fixing points; use the appropriate fixings for the mounting surface replace the cover on completion.
- 3. For desk mounting fix the four supplied self-adhesive feet to the underside of the enclosure.

Mains Power Up

- Attach the supplied IEC mains cable to a mains outlet socket providing power to the unit, ensure the rear input switch is turned on.
- 2. Check all 18 green output LED's are illuminated on the front panel.
- 3. Disconnect mains power.

Load Outputs

- 1. Attach correctly rated load cable to the provided screw output terminals. Note polarity.
- 2. Re-apply mains power.
- 3. Verify loads are operating correctly.



Front and Rear Panel Layouts



PTC Fuses

This unit uses PTC fuses – these fuses protect the power circuits from overcurrent, by 'breaking' the circuit as their thermal trip current threshold has been reached. Once the fault has been removed (i.e. the short circuit removed) the fuse will automatically reset allowing the circuit to function as normal, without the need to gain access to the internal fuses.

MAINTENANCE

There is no regular maintenance required of this PSU.

If an output of the PSU fails the cause of the failure should be investigated e.g. short circuit load. The fault should be rectified before re-attaching the load to the output.



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

SPECIFICATION

Input Specification

Voltage (rated) 220Vac
Voltage (operating) 220-240Vac
Frequency 50-60Hz
Mains Input Fuse (Input Connector) T5.0A HRC
IEC Mains Plug Fuse 5A
Max Mains Input Current 3.6A

Output Specification

Voltage 12V dc nominal Adjustable range 11V to 14V dc

Max load current (Total) 18A

Ripple 150 mV pk-pk max
Load output fuse type PTC (resettable Polyfuse)

Overload Electronic shutdown until overload or short circuit removed

Local Indicators

Power ON LED (Red) Mains Present
Output LED's 1-18 (Green) Output 'Healthy'

Mechanical

Enclosure Dimensions W437 x D215 x H70mm

Weight 2.3Kg

Environmental

Temperature -10 to +40°C (operating) 95% RH non-condensing

-20 to +80°C (storage)



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





The packaging supplied with this product may be recycled.

Please dispose of packaging accordingly.

Explanation of symbols:





Do not dispose of in unsorted waste



Fault Indication



Protective Earth



Mains Present



Shock Risk - isolate before attempting access

Specifications subject to change without notice