

ELMDENE

Protecting People & Property

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**12V dc 16A/20A
CCTV SMPSU**

VRS1216000-16-S

16 x Fused Outputs

VRS1220000-20PTC-S

20 x PTC Fused Outputs

VRS1220000-24-S

24 x Fused Outputs

- Mains input voltage 200-240V ac / 100-120V ac (switch selectable).
- High efficiency electronics for reduced running costs and lower operating temperatures
- Continuous full rated current to load
- Installer safe design with all high voltage electronics fully shrouded
- Individual channel LED health indication
- Green 'Mains Present' LED
- Available in 16, 20 or 24 channel versions (model dependent)
- Individually Fused or PTC protected outputs (model dependent)
- Cable access available via 20mm cable gland knockouts or rear panel
- Full electronic short circuit and overload protection on load output
- Mains transient protection circuit

FEATURES

The VRS12x000-x-S PSU range consists of high efficiency cost effective power supplies, ideal for use in high power CCTV applications. They feature a regulated 12V dc SMPS module, continuously supplying full rated current to load, a mains input selection switch allows the device to be used across a wide geographical area. The highly efficient switch mode design generates less heat and ensures low operating costs. The modular construction simplifies maintenance and the fused output module allows multiple circuits to be individually protected.

OPERATION

This unit is intended for use by Service Personnel only - There are NO USER SERVICEABLE parts inside. The green Mains LED will be illuminated whilst the mains supply is present.

MODELS

Model	Load Current	Fuse Type	Fused Outputs	PTC Rating (20°C)
VRS1216000-16-S	16A	20mm Glass	16 x 1A	
VRS1220000-24-S	20A	20mm Glass	24 x 0.8A	
VRS1220000-20PTC-S	20A	PTC (resettable)	20 x 1A (PTC)	I _H =1.1A / I _T =2.2A

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

1. Mount securely in correct orientation using the 3 available mounting holes.
2. Route mains and low voltage output cables via different knockouts and/or rear cable entry holes.
3. Use bushes and cable glands rated to UL94 HB minimum.

Mains Power Up

1. Attach correctly rated mains cable
2. Apply mains power. Check for 12V dc on load outputs. Check green Mains LED is illuminated on the module.
3. Disconnect mains power.

Load Output

1. Attach correctly rated load cable and fasten using cable ties. Note polarity.
2. Re-apply mains power. Check green Mains LED is on.
3. Check Red Fuse Output Module LED's are illuminated.
4. Verify load is operating correctly.

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 fuse(s), if not PTC, may need to be replaced. Ensure the correct fuse rating and type is used.

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

	<i>16A Versions</i>	<i>20A Versions</i>
Voltage (rated)	100-120V ac or 200-240V ac* Switch selectable	
Frequency	50-60Hz	
Mains Input Fuse (Terminal)	T6.3A HRC (100-120V ac) T3.15A HRC (200-240V ac)*	

Default Setting *

Output Specification

Voltage	10.0 – 14.0V dc (Adjustable)	
Max load current (per module)	16A	20A
Ripple	150 mV pk-pk max	
Overload	Electronic shutdown until overload or short circuit removed	

Local Indicators

MAINS LED (Green)	Mains present
FOM Health LED's (Red)	Illuminated – Healthy

Mechanical

	S – Enclosure
Enclosure Dimensions h x w x d (mm) [external]	345 x 288 x 90
Weight	3kg

Environmental

Temperature	-10 to +40°C (operating) 95% RH non-condensing -20 to +80°C (storage)
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COMPLIANCE

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

Low Voltage:	2014/35/EU
EMC:	2014/30/EU
RoHS3:	2015/863
WEEE:	2012/19/EU



*The packaging supplied with this product may be recycled.
Please dispose of packaging accordingly.*

Explanation of symbols: (Not all may apply)



Fault Indication



Shock Risk - isolate before attempting access



Mains Present



Certification Level



Protective Earth



Do not dispose of in unsorted waste

Specifications subject to change without notice