

# ELMDENE

Protecting People & Property

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

**VRS1216000-16-S**  
16 x 1.0A Fused Output

**VRS1220000-24-S**  
24 x 0.8A Fused Outputs

- High power 12V dc CCTV switch mode power supplies
- Adjustable output voltage potentiometer (+/- 10%)
- Continuous full rated current to load
- Individual channel LED health indication
- 1.5mm powder coated steel enclosure
- Screen printing available on request
- Single screw lid
- Individually Fused Outputs
- Multiple cable access available via rear panel
- Green 'O/P Present' LED

## FEATURES

The VRS1216000-16-S and VRS1220000-24-S are high power switch mode power supplies ideal for use in CCTV applications. They feature a regulated 12V dc power module, continuously supplying full rated current to load via multi-way fused outputs. The highly efficient switch mode design generates less heat and ensures low operating costs. The 1.5mm powder coated steel enclosure has been specifically designed with multiple rear cable entry points, ideal for multi camera systems. The fused output modules allow multiple circuits to be individually protected while providing fuse health status via on-board LED's.

## OPERATION

This unit is intended for use by Service Personnel only - There are NO USER SERVICEABLE parts inside. The green O/P LED will be illuminated whilst the output voltage is present.

## 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 rear cable entry holes.

### Mains Power Up

1. Attach correctly rated mains cable minimum 0.75mm<sup>2</sup> [6A], 300/500Vac) to the input terminal block and fasten using a cable tie on the securing point provided.
2. Ensure the mains input voltage switch on the side of the module is set correctly.
3. Apply mains power. Check for 12.0V dc on load outputs. Check green O/P LED is illuminated on the modules.
4. 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 O/P LED is on.
3. 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. If the output fuses 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](http://www.recyclethis.info)

## SPECIFICATION

### Input Specification

Voltage (rated)	100 – 120Vac / 200 – 240Vac (Switch Selectable)	
Frequency	50-60Hz	
Mains Input Fuse (Terminal)	T6.3A HRC (100-120Vac in)	T3.15A HRC (200-240Vac in)
Default	200 – 240Vac input T3.15A HRC	

### Output Specification

#### VRS1216000-16-S

Output Voltage	12.0V dc nominal
Adjustable Output Voltage (using potentiometer)	10.0V – 14.0V dc
Ripple	150 mV pk-pk max
Load output Fuse	See Model Specification Table below

### Local Indicators

OUTPUT LED (Green)	Output present
FAULT LED (Red)	Fault present: Output fuse fail (requires load to be connected)

### Fused Outputs

Model:	VRS1216000-16-S	VRS1220000-24-S
No. of Fused outputs:	<b>16</b>	<b>24</b>
Fuse Value:	16 x F1.0A	24 x F1.0A
Max current per channel:	1A	0.8A

### Mechanical

	S - Enclosure
Enclosure Dimensions <b>h x w x d (mm) [external]</b>	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
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: (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