



OMNITERM PAF POWER SUPPLY

Model C2440A PAF Universal Input 24Vdc 0.25A Output Instrument Power Supply

DATASHEET

- 24Vdc Instrument Power Supply
- Universal AC and DC Input Voltage range
- Space efficient 22.5mm wide module
- DIN Rail or Surface mounting
- CE Certified
- High Reliability Industrial Grade Design
- Fully enclosed housing



OVERVIEW

The OMNITERM PAF Instrument Power Supply is a general purpose dc supply suitable for a range of industrial instrumentation applications, such as the powering of instrument loops in small numbers, where space and reliability are of concern.

Use of carefully selected long-life components combined with conservative design parameters ensures increased reliability even in harsh operating conditions.

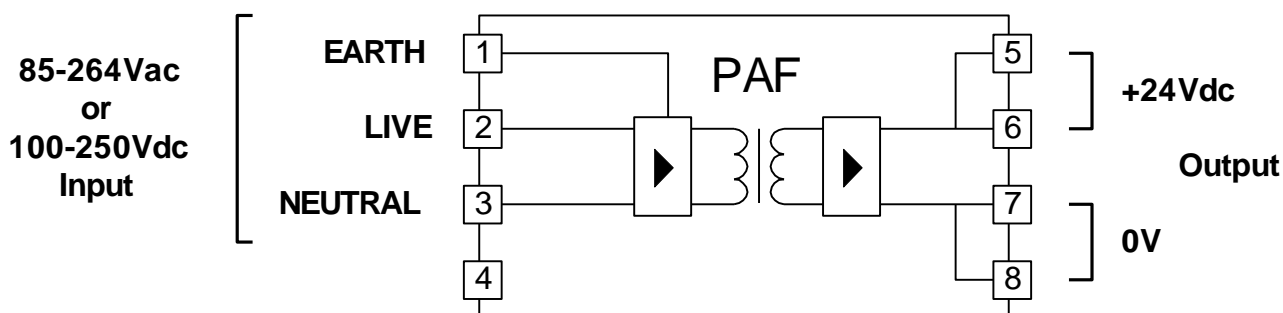
The PAF supply forms part of the OMNITERM range of Industrial instrumentation, and is designed to be compatible with all of the products in this range.

This second generation power supply uses the latest switch-mode supply technology to reduce cost, increase reliability, and meet international safety and compatibility norms.

This second-generation product utilises advanced electronic techniques to achieve high accuracy with minimum loop losses and zero field calibration.

The narrow 22.5mm plastic housing allows the product to be conveniently mounted together with other DIN rail mount instrumentation.

Electrical Connections

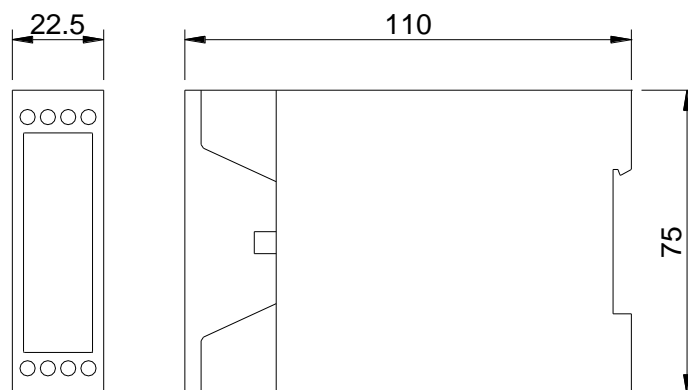




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Mechanical Details



SPECIFICATIONS

Input

AC Input Voltage Range	85-264Vac
AC Input Frequency	47-63 Hz
DC Input Voltage Range	100-250Vdc
Input Supply Current at 115Vac	<0.15A
Input Supply Current at 230Vac	<0.1A
Switch-on inrush current	<1A (50Hz half cycle duration)

Output

Model	C2440A-0	C2440A-1
Output Voltage at full load	24Vdc \pm 0.5V	12Vdc \pm 0.5V
Rated Output Current	0.25A maximum	0.5A maximum
Overload Protection	Power Limited Output	
Output Ripple at Full Load	2% maximum peak-to-peak	
AC Line Regulation over 85-264Vac input range	2% max	
DC Line Regulation over 100-250Vdc input range	2% max	
Load Regulation over 10-100% load range	1%	
Temperature Stability	< 0.15% / °C	

Environment

Operating	0 to +60°C
Storage	-20 to +70°C

Weight

Unpacked	130g approx.
Packed	155g approx.

Compliance to Standards

Safety	EN 60950:1995, IEC950
Emissions	EN55011 and EN50081-2:1994 Group I, Class A
Immunity – ESD	IEC 61000-4-2:1995, level 3
Immunity – RF Fields	IEC 61000-4-3:1995, level 3
Immunity – Fast Transients	IEC 61000-4-4:1995 2 kV – DC power port
Functional Safety to IEC61508	Suitable for use in SIL1 Applications. See Separate Reliability Datasheet RDC2440

Housing

Width	22.5mm (1.18")
Height	75mm(2.95")
Depth (from panel)	110mm(4.33")
Material	ABS Flammability Class HB as per UL94

Ordering Information

Order Code	Description
C2440A-0	Omniterm PAF 24Vdc Power Supply Module
C2440A-1	Omniterm PAF 12Vdc Power Supply Module