

Switching Mode Power Supply 240 watt DIN-rail mounting for Power Over Ethernet (POE) Applications



Description

ComNet™ model PS48VDC-5A is a high-quality, low-noise switching mode power supply ideally suited to those applications requiring POE (Power Over Ethernet). This rugged unit may be either DIN-rail or shelf-mounted, providing an identical mounting configuration to the mating POE switch. Up to 10 POE field devices may be powered from a single supply, and the high output current capacity provides an adequate safety margin. The wide ambient operating temperature range permits installation in most out-of-plant and unconditioned environments, such as those found in intelligent transportation systems or factory automation/industrial control applications. Unconditional line and load protection is provided.

Applications

- Power Supply for Switches supporting PoE

Features

- Universal AC input: 90 to 264 VAC, 47-63Hz
- Mounts on standard 7.5 or 15 mm DIN-rail
- Automatic power factor correction (PFC)
- High operating efficiency; up to 85%
- Small package for limited space installations
- Natural convection cooling; no troublesome fans

PS48VDC-5A

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specifications

OUTPUT DATA

Line regulation $\pm 0.5\%$

Ouput Voltage accuracy +1% (factory adjusted)
Ripple and Noise 150 mV peak to peak

Hold up time Vi = 230Vac 24 ms Minimum load 0%

INPUT DATA

Rated input voltage range

AC 90 - 264 Vac DC 120 - 370 Vdc Rated input current (115/230 VAC) 2.8 / 1.4A Frequency range 47- 63 Hz

Inrush current

Vi= 115Vac 22 Vi= 230Vac 45

INSTALLATION

COOLING Natural air convection

Allow 25mm of free space along all sides to

ensure adequate cooling

SCREW CONNECTIONS 10-24AWG Flexible or solid cable PLUG IN CONNECTORS 10-24AWG Flexible or solid cable

NOTE: Specify desired connector style at time of order.

ORDERING INFORMATION

PART NUMBER	OUTPUT Current (<i>f</i>	VOLTAGE T A) MIN. VDC	RIM RANGE* Max. VDC	
PS48VDC-5A	5	48.0	53.0	85%
Options	Add "B" to the part number for Plug-in connectors			

CONTROLS AND PROTECTIONS

Input Fuse T5A/250Vac internal*
Output Overvoltage Protection 54 - 60VDC
Output Short Circuit Protection Current limit
Rated Overload Protection 105-150%

GENERAL DATA

(@ NOMINAL LINE, FULL LOAD, 25°C)

Ambient operating temperature -10°C to 70°C

Derating (>56°C to +71°C) 2.5%/°C

Ambient humidity 20 - 90%RH, non-condensing

 $\begin{array}{ll} \text{Storage} & -20^{\circ}\text{C to } +85^{\circ}\text{C} \\ \text{Dimensions L} \times \text{W} \times \text{D} & 10 \times 12.5 \times 12.5 \text{ cm} \\ \end{array}$

 $4 \times 5 \times 5$ in

Cooling Natural convection

Case material Aluminium, Powder Coat Finish

Weight < 1.2 Kg (3.3 lbs)

APPROVALS AND EMC COMPLIANCE*

Withstand Voltage I/P-0/P:3KVAC

I/P-FG:1.5KVAC 0/P-FG:0.5KVAC

Isolation Resistance I/P-O/P, I/P-FG,O/P-FG:100M 0hms/500VDC

UL / cUL UL508, UL60950-1 approved TUV EN60950-1 approved

CE EN55011

EN55011 (CISPR22) Class B EN61000-3-2,-3 EN61000-4-2,3,4,5,6,8,11

EN50204 EN55024

EN61000-6-2, heavy industry level, criteria A

^{*} For complete compliance information contact ComNet for manufacturer's data sheet.

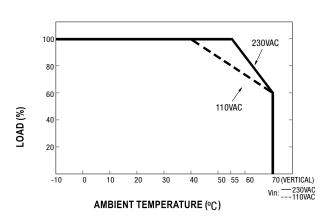


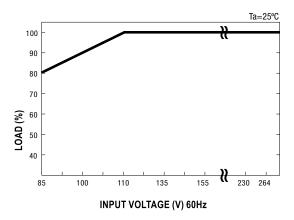
specifications

TERMINAL PIN ASSIGNMENT

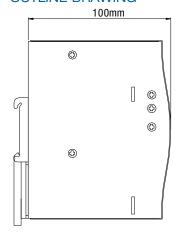
	PIN#	DESIGNATION
TB1	1	FG
	2	AC/N
	3	AC/L
TB2	1,2	DC OUTPUT +V
	3,4	DC OUTPUT -V

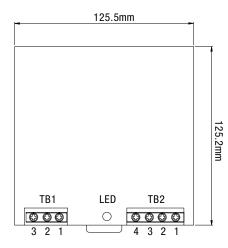
DERATING DIAGRAM

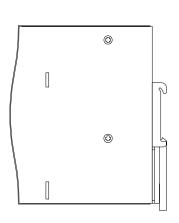




OUTLINE DRAWING







Specifications are subject to change without notice.



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