



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.

FEATURE

- › 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

APPLICATIONS

- › Power Supply for Switches supporting PoE

SPECIFICATIONS

Output Data

Line regulation	± 0.5%
Output Voltage accuracy	+1% (factory adjusted)
Ripple and Noise	150 mV peak to peak

Hold up time $V_i = 230\text{Vac}$	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	
$V_i = 115\text{Vac}$	22
$V_i = 230\text{Vac}$	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.

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
Storage	-20°C to +85°C
Dimensions L × W × D	4 × 5 × 5 in (10 × 12.5 × 12.5 cm)
Cooling	Natural convection
Case material	Aluminium, Powder Coat Finish
Weight	< 1.2 Kg (3.3 lbs)

Approvals and EMC Compliance*

Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/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.



ORDERING INFORMATION

Voltage Trim Range*

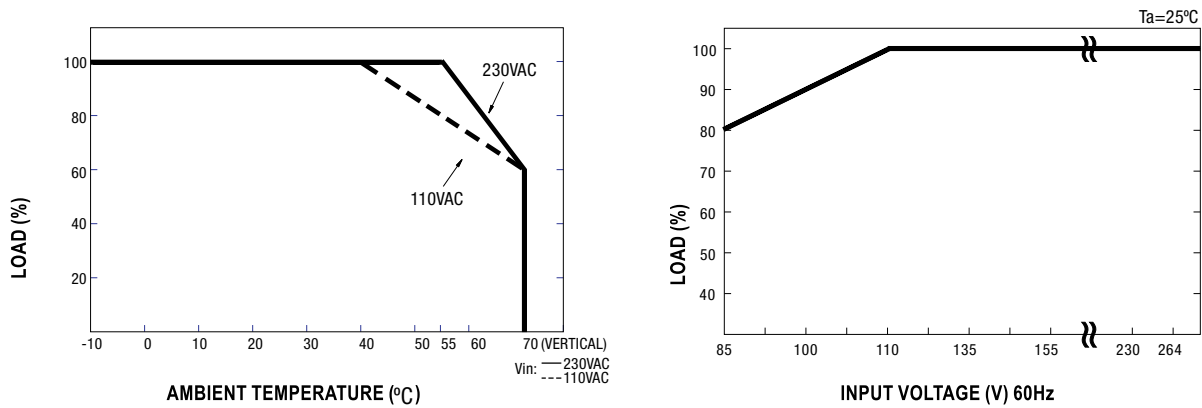
Part Number	Output Current (A)	Min. VDC	Max. VDC	Typical Efficiency
PS48VDC-5A	5	48.0	53.0	85%

SPECIFICATIONS

Terminal PIN Assignment

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

Derating Diagram



Outline Drawing

