



Switching Mode Power Supply 480 watt DIN-rail mounting for ComNet™ CNGE2FE24MSPOE

Description

ComNet™ model PS48VDC-10A is a high-quality, lownoise 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 24 POE field devices may be powered from a single supply, and the high output current capacity provides an adequate safety margin. A maximum of three of these units may be paralleled together to triple the number of POE devices supported. 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 ComNet™ CNGE2FE24MSPOE

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 90%
- Small package for limited space installations
- Natural convection cooling; no troublesome fans

PART	PART OUTPUT		VOLTAGE TRIM RANGE*		DC OK @ START UP (VDC)		DC LOW AFTER START UP (VDC)	
NUMBER	CURRENT (A)	MIN. VDC	MAX. VDC	MIN.	MAX.	MIN.	MAX.	EFFICIENCY
PS48VDC-10A	10	47.0	56.0	37.0	40.0	37.0	40.0	90%

^{*} When S/P switch is set to parallel, it is not possible to trim output voltage.

PS48VDC-10A

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specifications

OUTPUT DATA

Line regulation $\pm 0.5\%$ Load regulation, Non-parallel mode $\pm~0.5\%$ Load regulation, Parallel mode $\pm 5\%$

Ouput Voltage accuracy +1% (factory adjusted)

Ripple and Noise 100 mV

Hold up time Vi = 230Vac 30 ms Minimum load 0% Parallel Operation 3 units max.

INPUT DATA

Rated input voltage range

AC 90 - 264 Vac 120 - 370 Vdc Rated input current (115/230 VAC) 7 / 3.5A Frequency range 47-63 Hz

Inrush current

25A Vi= 115Vac Vi= 230Vac 50A

OPTIONAL FEATURES

CODE	DESCRIPTION	
В	Plug-in connectors	



CONTROLS AND PROTECTIONS

T10A/250Vac internal* Input Fuse 57 - 63VDC Output Overvoltage Protection **Output Short Circuit Protection** Current limit Rated Overload Protection 120-140%

GENERAL DATA

(@ NOMINAL LINE, FULL LOAD, 25°C)

Ambient operating temperature -25°C to 71°C Derating (>56°C to +71°C) 2.5%/°C

20 - 95%RH, non-condensing Ambient humidity

Storage -25°C to +85°C

Dimensions L \times W \times D screw terminal connector: 12.5 \times 17.5 \times 12.3 cm

 $4.9\times6.9\times4.8$ in

plug connector version: $14.2 \times 17.5 \times 12.3$ cm

 $5.6\times6.9\times4.8$ in

Cooling Natural convection

Case material Aluminium, Powder Coat Finish

Weight < 1.9 Kg (4.3 lbs)

Protection IP20

APPROVALS AND EMC COMPLIANCE[†]

Insulation voltage I/O 3.000Vac Insulation resistance I/O @ 500VDC 100Mohm

CE

UL / cUL UL508 listed, UL60950-1, Recognised

TUV EN60950-1 EN61000-6-3 EN55022 class B EN61000-3-2 EN61000-3-3 EN61000-6-2

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EN55024

[†] For complete compliance information contact ComNet for manufacturer's data sheet.

specifications

PIN ASSIGNMENT AND FRONT CONTROLS

PIN#	DESIGNATION	DESCRIPTION
1	+	Positive output terminal
2	+	Positive output terminal
3	-	Negative output terminal
4	-	Negative output terminal
5	GND	Ground terminal to minimise High frequency emissions
6	L	Phase input (no polarity with DC input)
7	N	Neutral input (no polarity with DC input)
	DC ON	DC output ready LED
	DC LO	DC low indicator LED
	Vout ADJ.	Trimmer for fine output voltage adjustment
	S/P	Single parallel selection switch

INSTALLATION

COOLING

Natural air convection

Allow 25mm of free space along all sides to ensure adequate cooling

SCREW CONNECTIONS

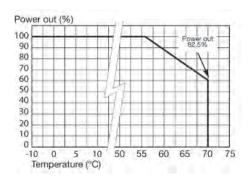
10-24AWG Flexible or solid cable

PLUG IN CONNECTORS

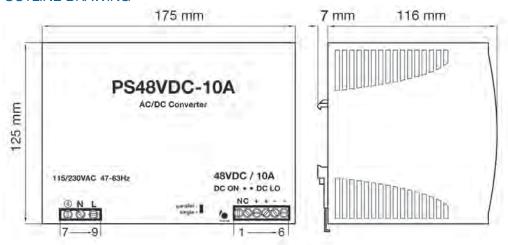
10-24AWG Flexible or solid cable

NOTE: Specify desired connector style at time of order.

DERATING DIAGRAM



OUTLINE DRAWING



Specifications are subject to change without notice.



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