Industrial DIN Rail Mounting 480 Watt @ 48 Volt Power Supply

PS-DRA480-48A

48 V | -40° TO +71° | DIN RAIL

The ComNet™ PS-DRA Series offer a complete range of high quality, low noise switching mode power supplies of various output sizes ideally suited to the entire ComNet industrial product range that require 48VDC power input. These rugged units are DIN rail mountable, providing an ideal mounting configuration to a mating ComNet industrial switch or any product using our range of DIN rail mounting adapters. 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.

FEATURES

› Parallel Function (Switch Selectable)

› Mounts on standard 7.5 or 15 mm DIN-rail

› Adjustable output voltage range support

› High operating efficiency; up to 90%

› Small package for limited space installations

› Natural convection cooling; no troublesome fans

› Wide operating temperature range: -40° to +71° C

› 3 Year Warranty

APPLICATIONS

› Power Supplies for ComNet Industrial Products

Industrial DIN Rail Mounting 480 Watt @ 48 Volt Power Supply

SPECIFICATIONS

All Specifications Typical at Nominal Line, Full Load, 25° C Unless Otherwise Noted

Power Input

Rated Input Voltage	115 / 230 VAC
Supported Input Range	90-264 VAC or 120-375 VDC
Input Current	115 / 230 VAC, 4.9/2.5 A
Line Frequency	47 to 63 Hz
Inrush current	115 / 230 VAC, 25/50 A
Power Dissipation	230 VAC, 60 W

Power Output

Voltage Accuracy	+1%
Minimum Load	0%
Line Regulation	±0.5%
Voltage Trim Range	47 to 56 VDC
Hold up time	115 / 230 VAC, 25 / 30 ms
DC indicator threshold	37 to 43 VDC
Output Wattage	480 W
Output Voltage	+ 48 VDC
Output Current	10 A @ 48 VDC
Effective	87 % min., 90% typ.

Control and Protection

Input fuse	T10A, 250 VAC internal
Internal Surge Protection	IEC 61000-4-5
Rated Over Load Protection	110 - 140 %
Over voltage protection	Auto Recovery, 125 - 140 %
Degree of protection	IP20

Connector

Screw Terminal	AWG24-10 (0.2 - 4mm²) flexible / solid cable

Indicating LEDs

DC ON	At Start Up (Green)
DC LOW	After Start Up (Red)

Electrical & Mechanical

Case Construction	Metal
Size	4.9 × 6.91 × 4.87 in (12.45 × 17.55 × 12.36 cm)
Weight	4.23 lb / 1920 g

Environmental

MTBF	>415,000 hours @ 40°C
Operating Temp	-40° C to +71° C, -40° C Start-up
Storage Temp	-40° C to +85° C
Relative Humidity	20% to 95% (non-condensing)

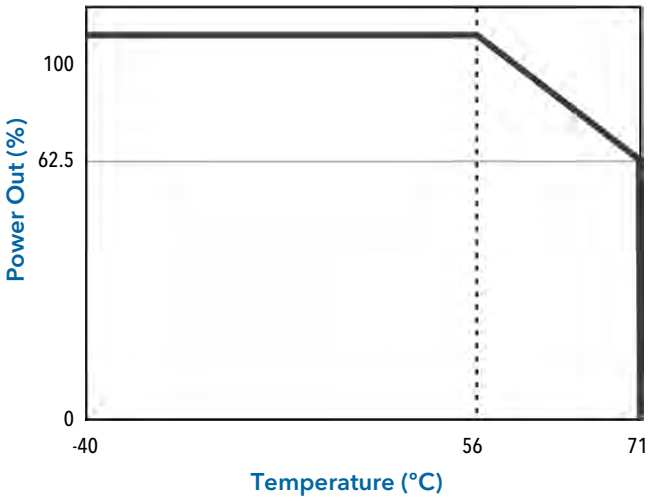
Approvals & EMC Compliance

UL / cUL	UL 508 Listed, UL 60950-I Recognized ISA 12.12.01 (Class I, Div 2, Groups A, B, C, & D)
TUV	EN 60950-I, CB scheme EN 61558-1, EN 61558-2-17 (meet EN 60204-1)
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2 Class D, EN 61000-3-3, EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3, EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L/N-FG Level 4, EN 61000-4-6 Level 3, EN 61000-4-8 Level 4, EN 61000-4-11, ENV 50204 Level 2, EN 61204-3
Vibration	Meets IEC 60068-2-6 Rail Mount: 10 - 500 Hz, 2G, 60 min for each Axis
Shock	Meets IEC 60068-2-27 15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face

PIN ASSIGNMENTS

PIN	Designation		Description
1, 2	OUT	V -	Negative output terminal
3, 4		V +	Positive output terminal
5 6		RDY	No Connection
7	IN	L	Input terminals (phase conductor, no polarity at DC input)
8		N	Input terminals (neutral conductor, no polarity at DC input)
9		GND	Ground this terminal to minimize high-frequency emissions
	OTHER	DC ON	Operation indicator LED
		DC LO	DC Low indicator LED
		Vout Adj.	Trimmer-potentionmeter for Vout adjustment
		S / P	Single / Parallel select switch

DERATING CURVES



ORDERING INFORMATION

Part Number	Description
PS-DRA480-48A	48 VDC 480 W (10A) DIN Rail High Temp Power Supply for PoE applications.

comnet Communication Networks
3 CORPORATE DRIVE | DANBURY, CONNECTICUT 06810 | USA | T: 203.796.5300 | F: 203.796.5303 | TECH SUPPORT: 1.888.678.9427 | INFO@COMNET.NET
8 TURNBERRY PARK ROAD | GILDERSOME | MORLEY | LEEDS, UK LS27 7LE | T: +44 (0)113 307 6400 | F: +44 (0)113 253 7462 | INFO-EUROPE@COMNET.NET
© 2015 Communication Networks. All Rights Reserved. "ComNet" and the "ComNet Logo" are registered trademarks of Communication Networks.