Industrial DIN Rail Mounting 30 Watt @ 48 Volt Power Supply

PS-DRA30-48A

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

› Auto Select 115/230 VAC Input Voltage

› Mounts on standard 7.5 or 15 mm DIN-rail

› Adjustable output voltage range support

› High operating efficiency; up to 86%

› 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

SPECIFICATIONS

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

Power Input

Rated Input Voltage	115 / 230 VAC (auto select)
Supported Input Range	85-264 VAC or 90-375 VDC
Input Current	115 / 230 VAC, 560/330 mA
Line Frequency	47 to 63 Hz
Inrush current	115 / 230 VAC, 20/40 A
Power Dissipation	230 VAC, 4.9 W

Power Output

Voltage Accuracy	+1%
Minimum Load	0%
Line Regulation	±0.5%
Voltage Trim Range	48 to 55 VDC
Hold up time	115 / 230 VAC, 20 / 30 ms
DC indicator threshold	37 to 43 VDC
Output Wattage	30 W
Output Voltage	+ 48 VDC
Output Current	625 mA @ 48 VDC
Effective	83 % min., 86% typ.

Control and Protection

Input fuse	T2A, 250 VAC internal
Internal Surge Protection	IEC 61000-4-5
Rated Over Load Protection	110 - 140 %
Over voltage protection	Auto Recovery, 60 - 66 VDC
Degree of protection	IP20

Connector

Screw Terminal	AWG24-14 (0.2 - 2mm²) flexible / solid cable

Indicating LEDs

DC ON	At Start Up (Green))

Electrical & Mechanical

Case Construction	Plastic
Size	3.6 × 1.59 × 4.49 in (9 × 4.05 × 11.4 cm)
Weight	0.6 lb / 270 g

Environmental

MTBF	>600,000 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)

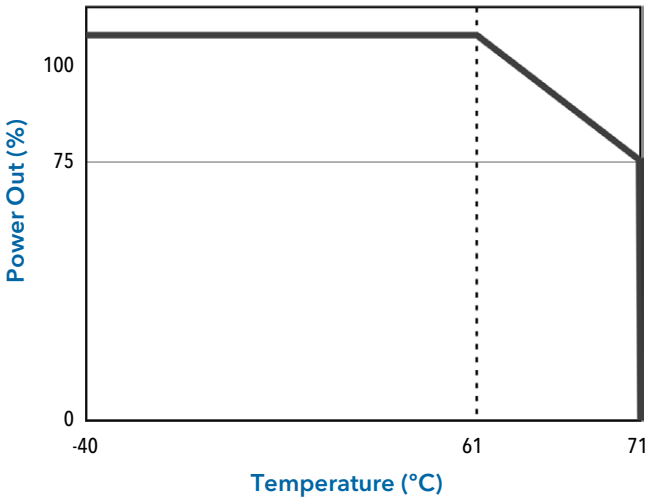
Approvals & EMC Compliance

UL / cUL	UL 508 Listed UL 60950-I, UL 1310 Class 2 Power 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, 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	IN	RDY	No Connection
2		+	Positive output terminal
3		+	Positive output terminal
4		–	Negative output terminal
5		–	Negative output terminal
6	OUT	GND	Ground this terminal to minimize high-frequency emissions
7		N	Input terminals (neutral conductor, no polarity at DC input)
8		L	Input terminals (phase conductor, no polarity at DC input)
	OTHER	Vout Adj.	Trimmer-potentionmeter for Vout adjustment
		DC ON	Operation indicator LED

DERATING CURVES



ORDERING INFORMATION

Part Number	Description
PS-DRA30-48A	48 VDC 30 W (625 mA) DIN Rail High Temp Power Supply for PoE applications.

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