

PS-DRA120-48A



48 V



-35° 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 87%
- › Small package for limited space installations
- › Natural convection cooling; no troublesome fans
- › Wide operating temperature range: -35° 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	90-264 VAC or 210-375 VDC
Input Current	115 / 230 VAC, 2.2/0.83 A
Line Frequency	47 to 63 Hz
Inrush current	115 / 230 VAC, 24/48 A
Power Dissipation	230 VAC, 19 W

### Power Output

Voltage Accuracy	+1%
Minimum Load	0%
Line Regulation	±0.5%
Voltage Trim Range	45 to 55 VDC
Hold up time	115 / 230 VAC, 25 / 30 ms
DC indicator threshold	37 to 43 VDC
Output Wattage	120 W
Output Voltage	+ 48 VDC
Output Current	2.5 A @ 48 VDC
Effective	85 % min., 87% typ.

### Control and Protection

Input fuse	T3.15A, 250 VAC internal
Internal Surge Protection	IEC 61000-4-5
Rated Over Load Protection	110 - 145 %
Over voltage protection	Auto Recovery, 125 - 140 %
Degree of protection	IP20

### Connector

Screw Terminal	AWG24-10 (0.2 - 4mm <sup>2</sup> ) flexible / solid cable
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### Indicating LEDs

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

### Electrical & Mechanical

Case Construction	Metal
Size	4.9 × 2.52 × 4.87 in (12.45 × 6.4 × 12.36 cm)
Weight	2.03 lb / 920 g

### Environmental

MTBF	>480,000 hours @ 40°C
Operating Temp	-35° C to +71° C, -35° C Start-up
Storage Temp	-40° C to +85° C
Relative Humidity	20% to 95% (non-condensing)

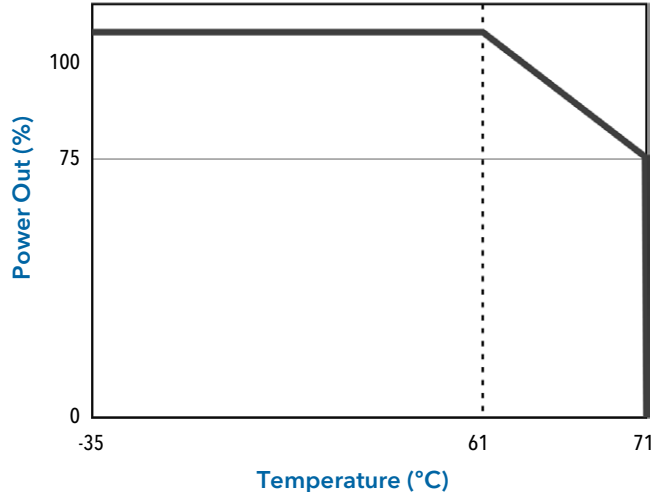
### Approvals & EMC Compliance

UL / cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power recognized ISA 12.12.01 (Class I, Div 2, Groups A, B, C, & D)
TUV	EN 60950-1, CB scheme
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, 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
Shock	Rail Mount: 10 - 500 Hz, 2G, 60 min for each Axis Meets IEC 60068-2-27 15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face

## PIN ASSIGNMENTS

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

## DERATING CURVES



## ORDERING INFORMATION

Part Number	Description
PS-DRA120-48A	48 VDC 120 W (2.5A) DIN Rail High Temp Power Supply for PoE applications.