



48 V



-40° TO +71°C



DIN RAIL



The PWR-DR48480 offers a complete range of high quality, low noise switching mode power supplies of various output sizes ideally suited to the entire industrial product range that require 48 VDC power input. These rugged units are DIN rail mountable, providing an ideal mounting configuration to a mating 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

## APPLICATIONS

- › Power Supplies for Industrial Products, such as Hardened PoE Switches



## 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 - 4 mm <sup>2</sup> ) flexible / solid cable
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### Electrical & Mechanical

Indicating LEDs	DC ON: At Start Up (Green) DC LOW: After Start Up (Red)
Case Construction	Metal
Size	4.9 × 6.91 × 4.87 in (12.45 × 17.55 × 12.36 cm)
Weight	4.23 lb / 1.92 kg

### 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)

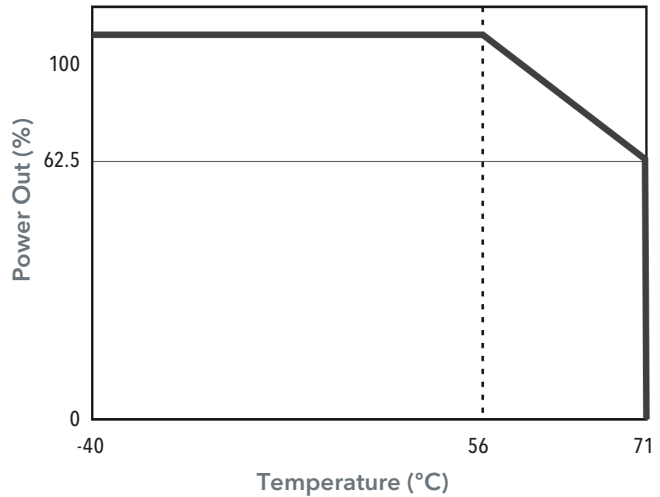
### Approvals & EMC Compliance

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		RDY No Connection
6	IN	
7		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-potentiometer for Vout adjustment
	S / P	Single / Parallel select switch

## DERATING CURVES



## ORDERING INFORMATION

Model Name	Description
PWR-DR48480	48VDC 480Watt (10A) DIN Rail High Temp Power Supply (-40°C to +71°C With -40°C Start-Up) For PoE Applications. Screw Terminals.