

DIN Rail Industrial Power Supplies

Features

- High Power and rugged design
- Short Circuit, Over-Voltage, Over-current Protection
- 90-264VAC Auto Ranging Input
- 47~56VDC Adjustable Output
- -40C to +70C Operating Temperature
- Supports Parallel Operation
- Dry Contact DC Alarm

Applications

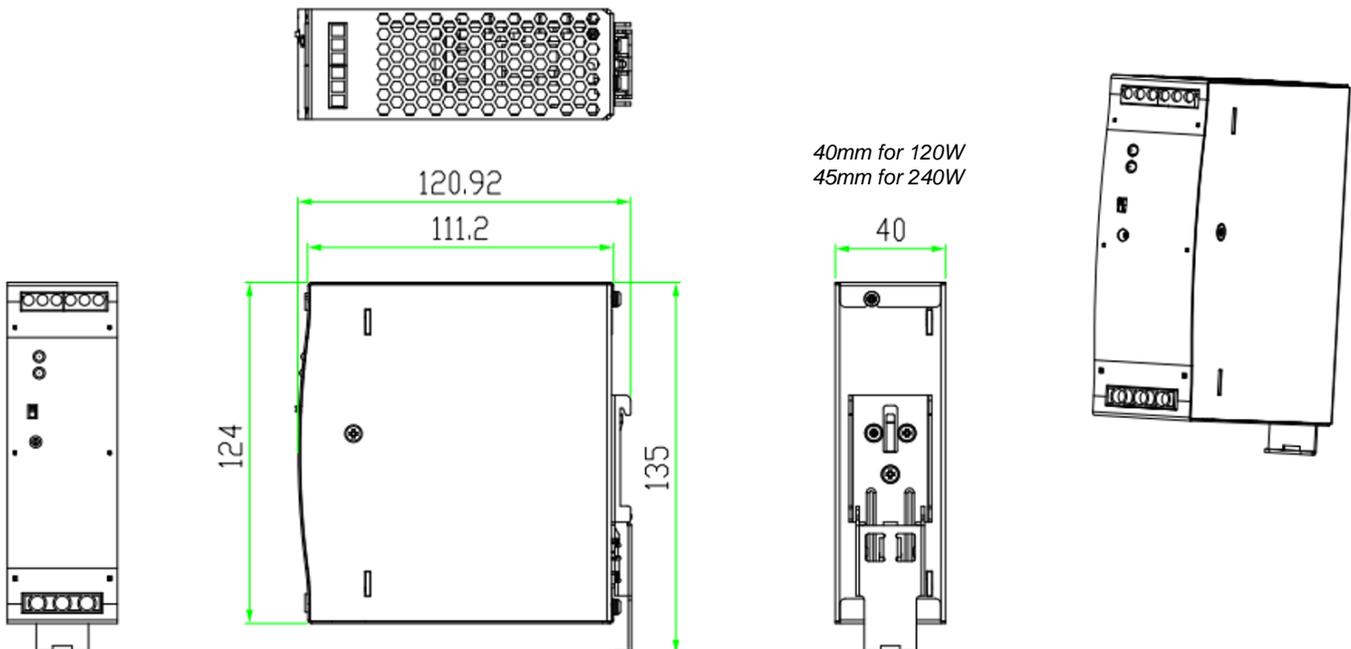
- Powering PoE Switches
- IP Phone and Security Camera Systems
- Telecommunications

Description

The PSDIN Series of Industrial DIN Rail mount high efficiency switching power supplies operate over a wide temperature range of -40C to +70C. There are two models to supply 120W or 240W. The input is 90 to 264VAC auto-ranging with wire terminal connections. The output is 48VDC nominal with an adjustment range from 47VDC to 56VDC. There is a switch for single or parallel operation. Two 240W supplies operating in parallel will provide 480W total power. There is an alarm output to provide a dry contact closure to trigger an alarm if the DC output fails, like during a grid power failure. The relay is closed when DC output is normal and open when DC output is in fault condition due to overload or safety shutdown.



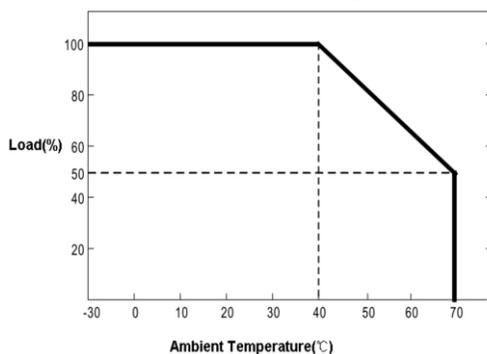
48VDC 120W AC to DC Industrial Power Supply



Specifications

	PSDIN-48-120W	PSDIN-48-240W
Input Operating Range	90-264VAC ; 47-63Hz	
Input In-rush Current	35A Max	
Input Current	2.2A @ 115VAC ; 1.10A @ 230VAC	4.4A @ 115VAC ; 2.20A @ 230VAC
Output Voltage	47~ 56VDC (adjustable)	
Cont. Load Current	2.5A	5A
Maximum Output Power	120W	240W
Peak Power (10sec @ 220VAC)	180W	360W
Line Regulation	+/- 0.5%	
Load Regulation	+/- 1%	
Voltage Overshoot	<5%	
Ripple / Noise	100mV Peak	
Efficiency	90% Minimum	
Dielectric Strength	1500V rms , 1 min, 10mA Max	
Insulation Resistance	10M Ohms	
Protection	Short Circuit, Over-Voltage, Over-Current, Over Power	
Alarm Output (“DC” and “OK”)	1A @ 30VDC, 0.5A @ 125VAC. DC OK = Closed, DC Fault = Open	
Safety Standards	GB4943 / EN60950-1	
EMI Standards	FCC PART 15 CLASS B, EN55022, EN55024	
Harmonic Current	EN61000-3-2 Class D	
EMS	EN61000-4-x Level 3&4	
Operating Temp	-40°C to 70°C (-40°F to 158°F)	
Operating Humidity	5% to 95% non- condensing	
Storage Temp	-40°C to 85°C (-40°F to 185°F)	
MTBF	200,000 hrs	
Altitude	2000m (6562ft)	
Vibration	10-500Hz 2G 10min Sweep, 20G Surge 11ms	
Case Size	135 x 121 x 40mm (5.3 x 4.8 x 1.6”)	135 x 121 x 45mm (5.3 x 4.8 x 1.8”)
Weight	0.59 Kg (1.3 Lb)	0.77 Kg (1.7 Lb)
Warranty	3 Years	

Temperature Derating Curve



48VDC 240W AC to DC Industrial Power Supply

System Ordering:

PSDIN-48-120W 90-264VAC In, 47-56VDC (adjustable) 2.5A 120W Out Industrial DIN Rail Power Supply

PSDIN-48-240W 90-264VAC In, 47-56VDC (adjustable) 5A 240W Out Industrial DIN Rail Power Supply

For further information contact:

Tyconsystems.com

