

### 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

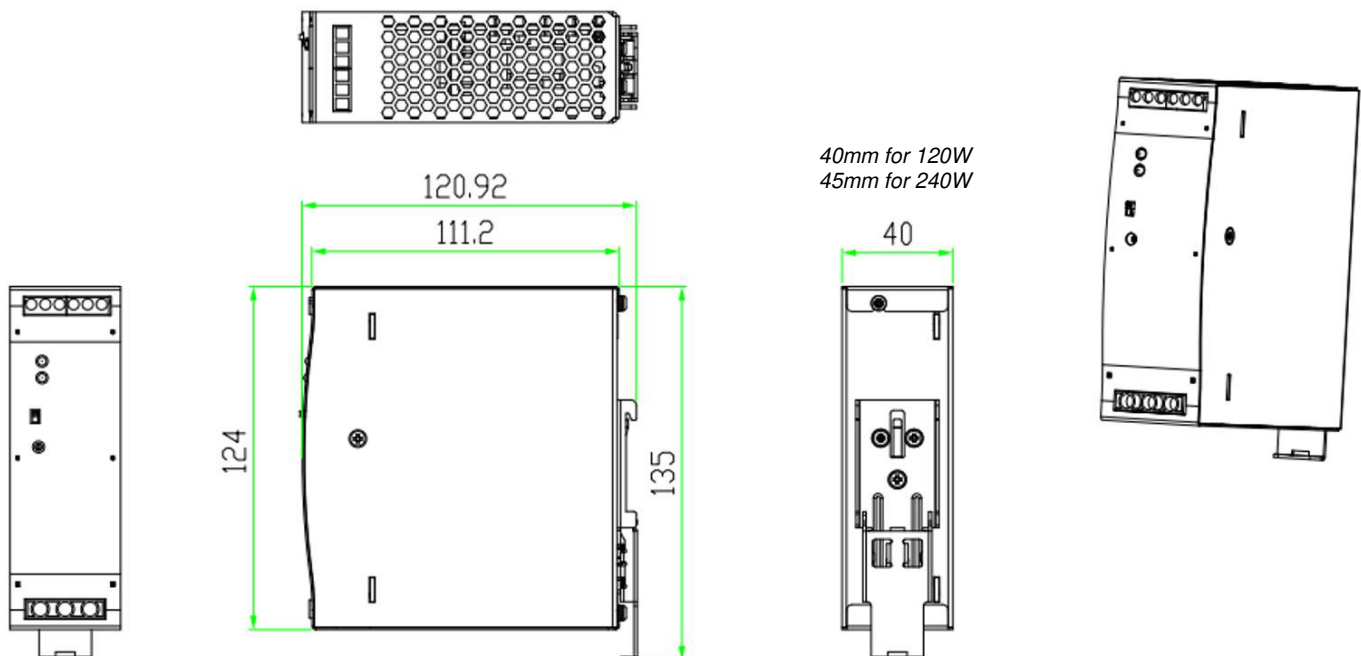
- Powering PoE Switches
- IP Phone and Security Camera Systems
- Telecommunications

#### 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.



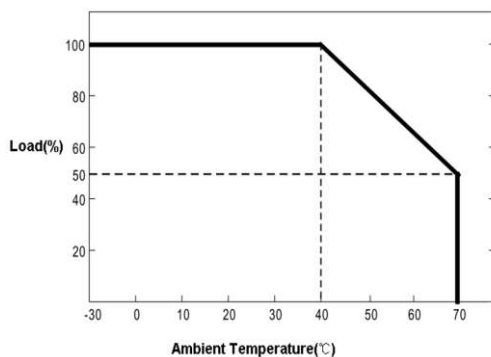
48VDC 120W AC to DC Industrial Power Supply



## Specifications

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

