



Industrial Din-rail Power Supply

This DIN-rail mounted industrial power supply series provides stable and efficient power for industrial Ethernet and PoE Switches.

It supports a wide-range 100–240V AC input and offers multiple power options from 60W, 120W, 240W, and 480W, ensuring reliable continuous operation.

With a rugged metal housing for effective heat dissipation and built-in protection against short circuit, overload, over-voltage, and over-temperature, the series is well-suited for harsh industrial environments.

The adjustable DC output, high efficiency, and wide operating temperature range make it an ideal power solution for industrial networking and automation systems.

Features

- **Single Output / Input Voltage / Output Voltage**

Power from 60W to 480W; 90~264V AC, 120~370V DC; 44~57V Output

- **Comprehensive Protection Design**

Built-in protection against short circuit, overload, over-voltage, and over-temperature, ensuring stable and secure operation under continuous load.

- **High Power Capability**

Provides power output up to 480W, delivering strong and reliable power support for industrial Ethernet and PoE switches.

- **Optimized for Industrial Switch Applications**

Specially designed to work seamlessly with industrial switches and PoE networking equipment, ensuring uninterrupted operation in mission-critical applications.

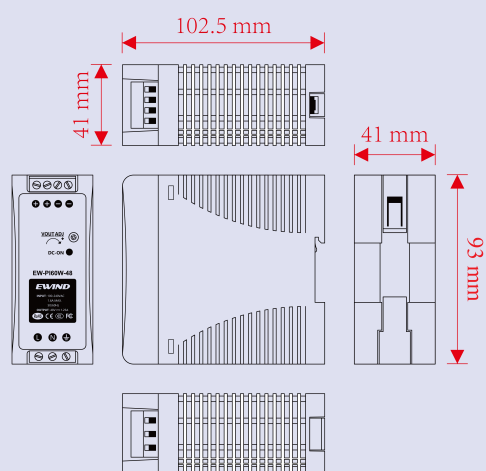
Specifications



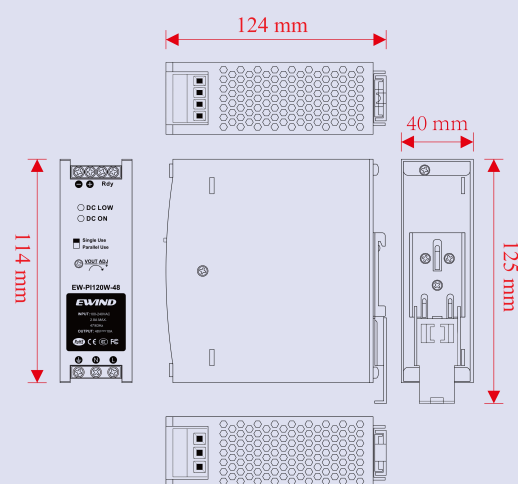
Model	EW-PI60W-48	EW-PI120W-48	EW-PI240W-48	EW-PI480W-48
Output				
DC Output Voltage, Current	48V, 0~1.25A	48V, 0~2.5A	48V, 0~5A	48V, 0~10A
Rate Power (max)	60W	120W	240W	480W
Inlet Wire Stability	±0.5%	±0.5%	±0.5%	±0.5%
Load Stability	±1%	±1%	±1%	±1%
Adjustable Range For DC Voltage	±10%	±10%	±10%	±10%
Ripple noise	Peak ≤100mV (Test Method: The terminal shall be in parallel with capacitance of 0.1uF and 47uF, testing at 20MHz)			
Output Start Time	< 1.5S @ 115V/AC	< 2S @ nominal input (100% load)	< 2S @ nominal input (100% load)	< 2S @ nominal input (100% load)
Output Hold Time	> 20ms @ 115Vac, > 125 ms @ 230Vac (100% load)	> 20ms @ 115Vac, > 115 ms @ 230Vac (100% load)	> 20ms @ 115Vac, > 115 ms @ 230Vac (100% load)	> 20ms @ 115Vac, > 115 ms @ 230Vac (100% load)
Input				
Input Voltage Range	85~264VAC; 120~370VDC; 47~63Hz			
Frequency Range	47~63Hz			
Efficiency	≥85.0% @ 115Vac; ≥89.0% @ 230Vac	≥90.0% @ 115Vac; ≥91.0% @ 230Vac	≥90.0% @ 115Vac; ≥91.0% @ 230Vac	≥91.0% @ 115Vac; ≥92.0% @ 230Vac
Input Current	< 1.40A @ 115Vac; < 0.80A @ 230Vac	< 2.20A @ 115Vac; < 1.10A @ 230Vac	< 4.40A @ 115Vac; < 2.20A @ 230Vac	< 6.00A @ 115Vac; < 3.00A @ 230Vac
Inrush Starting Current	< 20A @ 115Vac; < 35A @ 230Vac	< 35A @ 115Vac & 230Vac	< 35A @ 115Vac & 230Vac	< 40A @ 300Vac Cold start
Power Factor	PF>0.6 (at full load)	> 0.99 @ 115Vac; > 0.93 @ 230Vac	> 0.99 @ 115Vac; > 0.93 @ 230Vac	> 0.99 @ 115Vac, > 0.93 @ 230Vac
Protection				
Over Power	78~97W / 144~180W / 288~360W / 576~720W Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode: Swing machine, Self-recovery after over-power released.)			
Over Voltage	57~70V (480W @ 58~60V) Swing machine (Short circuit the Pin1-2 of U8, swing machine. Output recovery to normal after removing the short circuit) Note: Do not use external voltage.			
Over Current	1.5~1.875A / 3~3.75A / 6~7.5A / 12~15A Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode: Swing machine, Self-recovery after over-current released.)			
Short Circuit	It achieves the long-term short circuit by connecting a sufficient cross-sectional area copper cable (Length at 15cm±5cm) with power output port. Self-recovery to normal after removing the short circuit.			
Overload	105% ~ 150% cut off the output, automatic recovery			
Other voltage protection	120% ~ 140% shut down O/P voltage, re-power on to recover			
Environment				
Operation Temperature and Humidity	-30℃ ~85℃; 20%~95%RH non-condensing			
Storage Temperature and Humidity	-40℃ ~85℃; 10%~95%RH non-condensing			
Liberation	Frequency range: 10 ~ 500Hz; Acceleration: 2G; Each sweep cycle 10min; Six sweeps along the X, Y, and Z axis			
Surge	Acceleration: 20G; Duration time: 11mS; Three shocks along X, Y and Z axis			
Altitude	2000m			

Model	EW-PI60W-48	EW-PI120W-48	EW-PI240W-48	EW-PI480W-48
Others				
Dimension	41x103x93mm	40x114x124mm	45x113x124mm	70x124x125mm
Weight	0.3KG	0.6KG	0.8KG	1.35KG
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-FG: 500VDC/100MΩ			
Smart flow control	-10°C ~ +50°C			

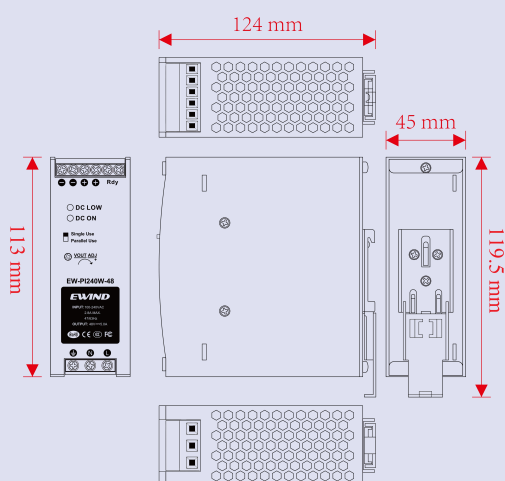
Mechanical Info



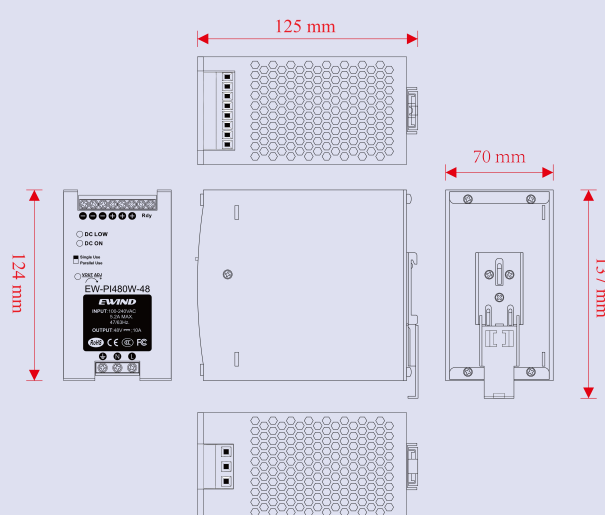
EW-PI60W-48



EW-PI120W-48



EW-PI240W-48

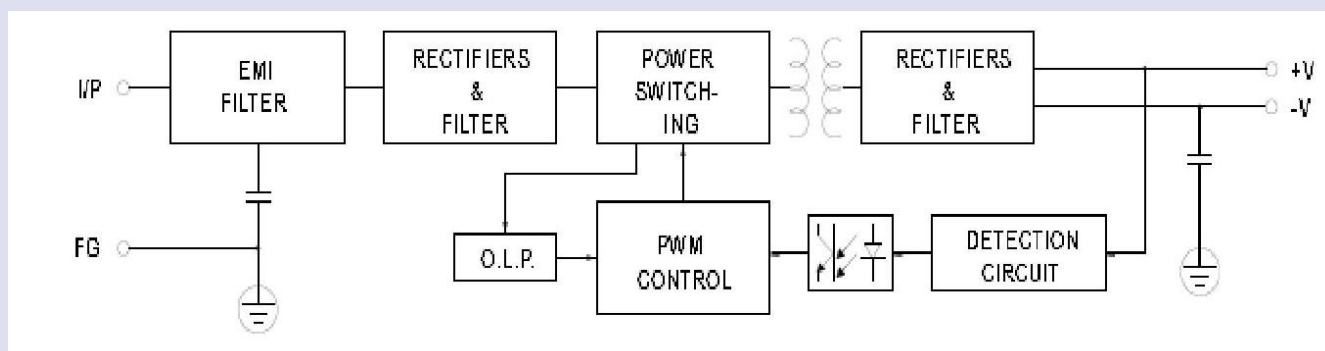


EW-PI480W-48

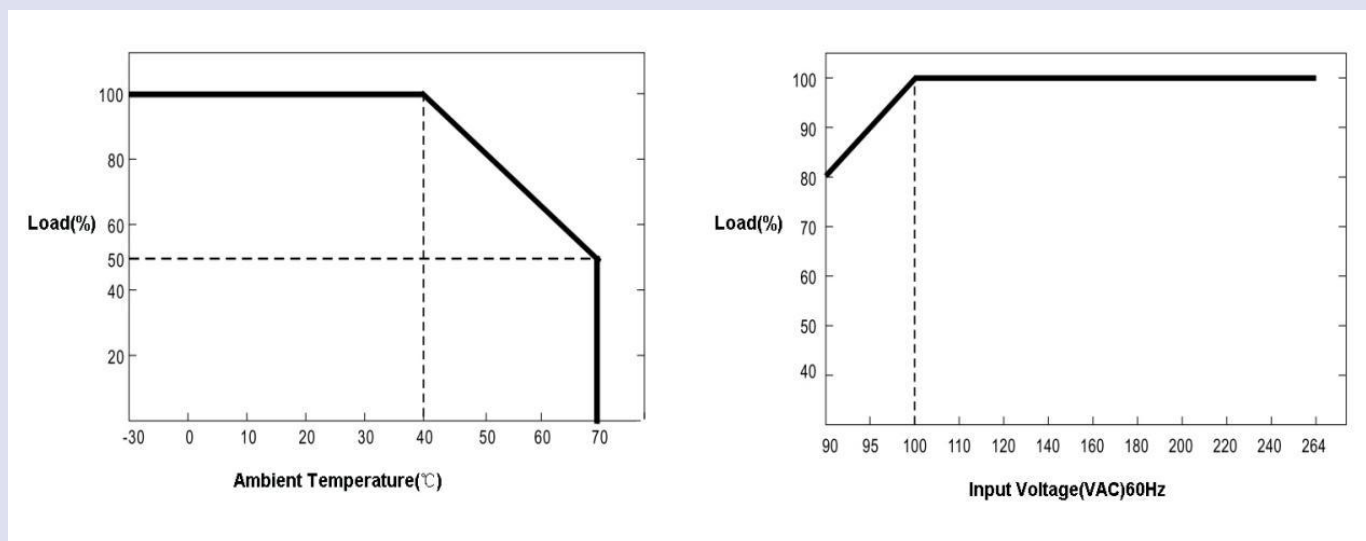
Terminal Pin No. Assignment (TB1)	
Pin No.	Assignment
1	FG ⚡
2	AC/N Or DC -
3	AC/L Or DC +

Terminal Pin No. Assignment (TB2)	
Pin No.	Assignment
1, 2	DC OUTPUT -V
3, 4	DC OUTPUT +V

Block Diagram



Derating Curve



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