

# DIN-rail Power Adapter

WI-DP240W-48V



## Overview

Wi-Tek has launched a series of DIN-rail power adapter, supporting a full range of 100~240V AC input, respectively, can output 30W,75W,120W,240W,480W power supply for industrial switch continuous power supply, The metal shell design is conducive to the heat dissipation of the equipment. In addition, it has over-current protection, over-voltage protection, short circuit protection, etc., to ensure the safe power supply of the equipment. The series are single phase PSU, providing adjustable DC output voltage. They have high efficiency and operate in wide temperature range.

## Features

### DC Output Voltage Adjustable

The DC voltage output range can be flexibly adjusted to meet the requirements of the project site.

### Universal AC input/ Full range

Wide voltage design, can support 100~240V AC voltage input, adapt to the global mains voltage, to meet the needs of various industrial environments.

### Multiple protection mechanisms

Support Short Circuit/Overload/Over Voltage/Over Temperature protection to ensure long-term stable equipment operation.

### Great partner with industrial switch

The series adapters can output up to 480W of power, providing a powerful and stable power supply system for industrial PoE switches

# Specifications



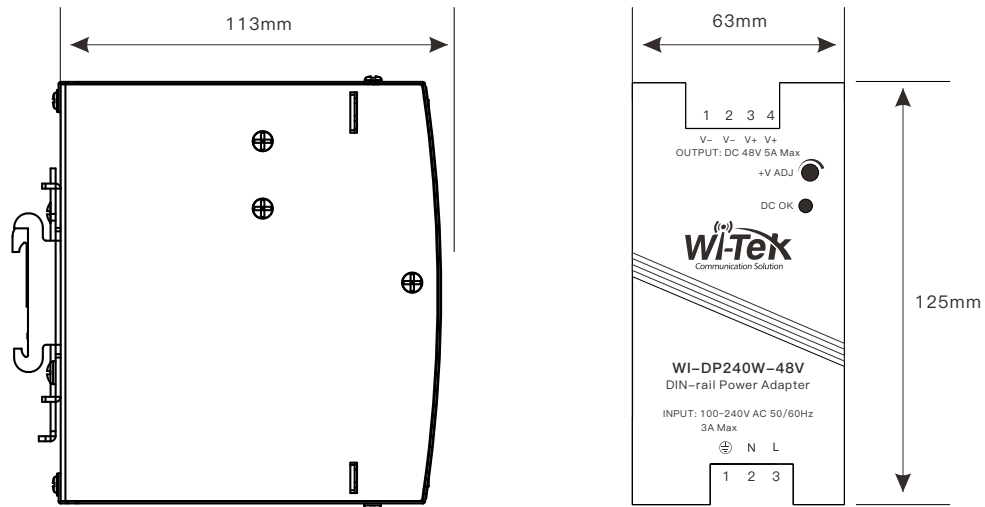
Model	WI-DP240W-48V
Output	
DC Voltage	48V
Rated Current(Max.)	5A
Current Range	0-5A
Rate Power(Max.)	240W
Ripple & Noise(Max.)	150mVp-p
Volatge ADJ. Range	48-55V
Voltage Tolerance	± 2.0%
Link Regulation	± 0.5%
Load Regulation	± 1.0%
Setup, Rise Time	1500ms/100ms(115V/60Hz full load) 3000ms/100ms(230V/50Hz full load)
Hold Up Time (Typ.)	16ms/230VAC at full load 12ms/115VAC at full load
Input	
Rated Input	100~240VAC
Voltage Range	90~264VAC 127~370VDC
Frequency Range	47-63Hz
Efficiency	88%
AC Current (Typ.)	2.5A/115VAC 1.3A/230VAC
Inrush Current (Typ.)	20A/115VAC 35A/230VAC
Leakage Current	<1mA/240VAC

Model	WI-DP240W-48V
Protection	
Overload	105~130% rated output power Protection type: Hiccup Mode– recovers automatically after fault condition is removed
Over Voltage	56~65V Hiccup Mode– recovers automatically after fault condition is removed
Over Temperature	Protection type : Shut down o/p voltage, re–power on to recover
Environment	
Working Environment	–20°C~+70°C(Refer to "Derating Curve") ; 20%~95% (Non–condensation)
Storage Environment	–40°C~+85°C; 10%~95% (Non–condensation)
Other	
Product Dimension(W.H.D)	63*113*125mm
Product Weight	1 kg
Installation	DIN–rail

#### Note

1. All parameters NOT specially mentioned at 230VAC input, rated load and 25 °C of ambient temperature.
2. Ripple&noise are measured from peak to peak with band width limit of 20MHz(0.1uF and 47uF/ 50V parallel capacitor under DC output full load,AC nominal input 25 °C ambient temperature).
3. Installation clearances: top with 40mm, bottom with 20mm, left and right with 5mm. increase the space to10–15mm when the adjacent device is heat source.
4. Derating may be needed under low input voltage. Please check the derating curve for more details.
5. Efficiency test after 30 minutes of burn–in.
6. The ambient temperature derating of 3.5°C /1000m for operating altitude higher than 2000m(6500ft).

Mechanical Specifcation



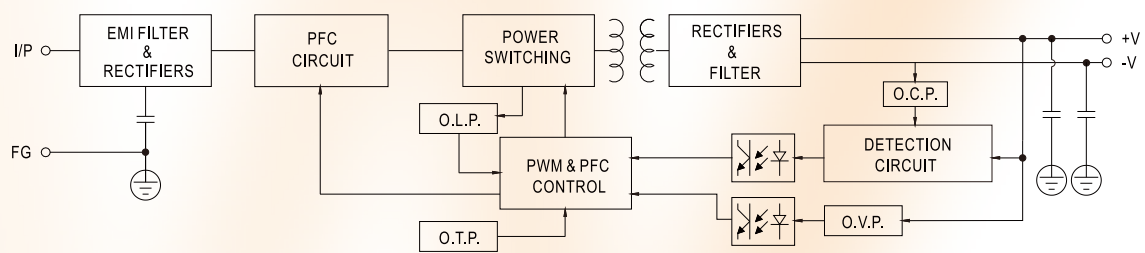
Input

No.	Description
1	FG ⊕
2	AC/N or DC -
3	AC/L or DC +

Output

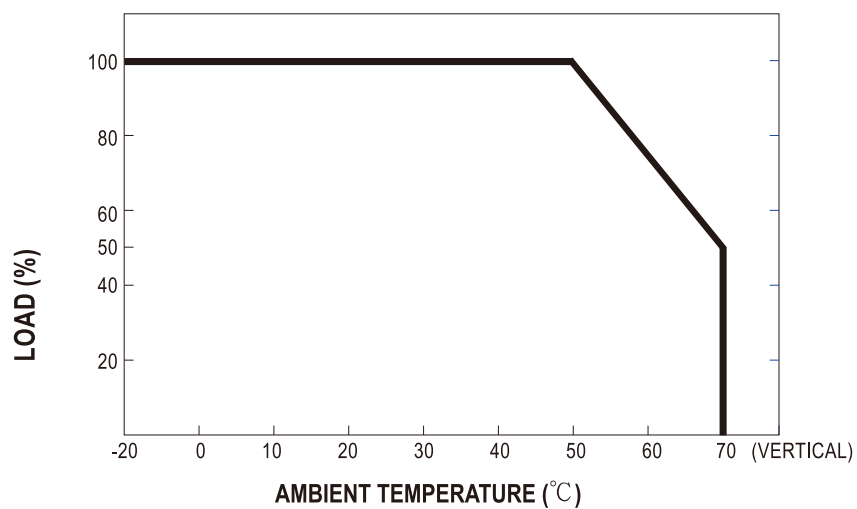
No.	Description
1,2	DC OUTPUT -V
3,4	DC OUTPUT +V

Block Diagram

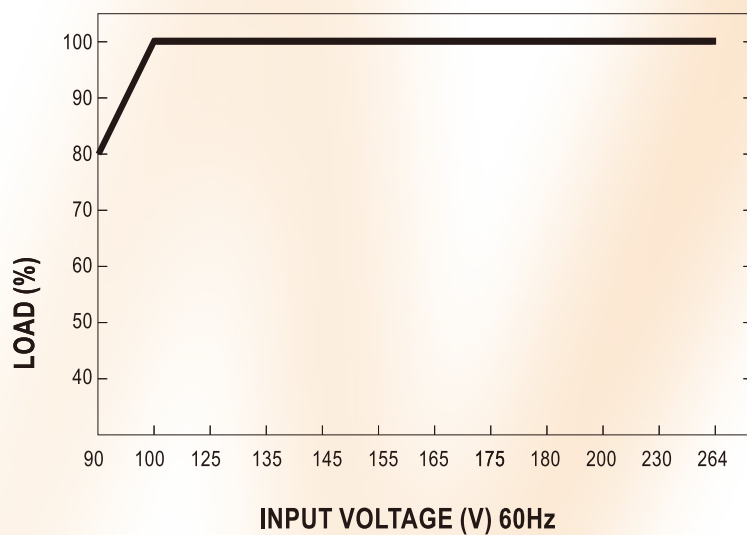




## Deduction Curve and Temperature



## Minus Output and input Voltage Curves



# Package Contents

Welcome to order our products. After purchasing, you will receive:

Items	Quantity
Power Adapter	1 pcs



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Technical Support



Cloud Management



Company Website