

# DIN Rail Mount Power Supply AC To DC

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**RoHS  
Compliant**



## Description

This step shape power family are designed with ultra-slim plastic housing and for full range AC input from 90V AC to 264V AC.

The series are isolation Class II Level, achieving high efficiency and low no-load power consumption. They provide adjustable DC output voltage and operate in wide temperature range.

The good performance can be used for building automation, household and industrial control systems etc.

## Features

- Isolation Class II
- Ultra Slim Step Shape
- Protection Short Circuit/Overload/ Over Voltage
- Class 2/Pass LPS
- DC Output Voltage Adjustable

## Model Information

Part Number	DC Voltage	Rated Current	Rated Power
MP30S-0503000	5V	3A	15W
MP30S-1202500	12V	2.5A	30W
MP30S-1502000	15V	2A	30W
MP30S-2401500	24V	1.5A	36W
MP30S-4800630	48V	0.63A	30W

## Input

Voltage Range	90-264V AC, 127-370V DC
Frequency Range	47-63Hz
Inrush Current	Cold Start 25A/115V AC, 45A/230V AC
AC Current	0.88A/115V AC, 0.48A/230V AC
Efficiency	82% - MP30S-0503000 88% - MP30S-1202500 89% - MP30S-1502000 89% - MP30S-2401500 90% - MP30S-4800630

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### Output

Ripple & Noise	80mVp-p - MP30S-0503000 120mVp-p - MP30S-1202500 120mVp-p - MP30S-1502000 150mVp-p - MP30S-2401500 240mVp-p - MP30S-4800630
Voltage ADJ. Range	4.5~5.5V - MP30S-0503000 10.8~13.8V - MP30S-1202500 13.5~18V - MP30S-1502000 21.6~29V - MP30S-2401500 43.2~55.2V - MP30S-4800630
Voltage Tolerance	±2%
Line Regulation	±1%
Load Regulation	±1%
Setup, Rise Time	500ms, 50ms/230V AC at full load 500ms, 50ms/115V AC at full load
Hold Up Time (Typ.)	30ms/230V AC at full load 12ms/115V AC at full load

### Protection

Over Load	105 ~ 160% rated output power Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed Constant current limiting within 50%-100% rated output voltage, recovers automatically after fault condition is removed.
Over Voltage	5.75 ~ 7.5V - MP30S-0503000 15 ~ 18V - MP30S-1202500 18.8 ~ 22.5V - MP30S-1502000 30 ~ 36V - MP30S-2401500 57.6 ~67.2V - MP30S-4800630 Protection type : Shut off o/p re-power on to recover

### Environment

Working Temp.	-20°C - +70°C
Working Humidity	20 ~ 90% RH Non-Condensing
Storage Temp, Humidity	-40°C~+85°C, 10 ~ 95% RH non-condensing
Temp. Coefficient	+0.03%/ C (0 ~ 50°C RH non-condensing)
Vibration	10 ~ 500HZz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
Operating Altitude	5000m
Over Voltage Category	II, According to EN62368-1 altitude up to 2000 meters
MTBF	900K hrs min. MIL-HDBK-217F (25°C)

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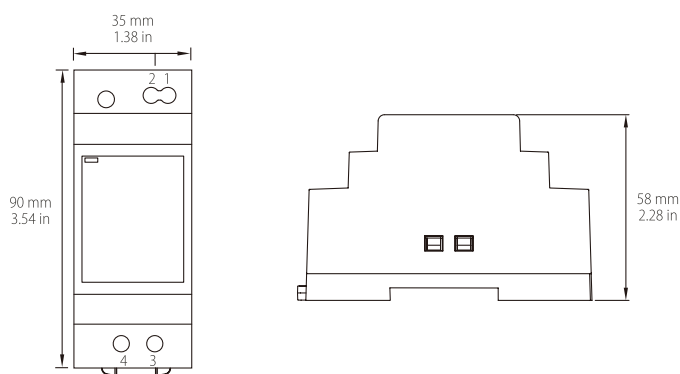
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## Dimensions & Weight

Length	: 35mm / 1.38in
Width	: 90mm / 3.54in
Height	: 58mm / 2.28in
Weight	: 120g

## Dimensions and Installation



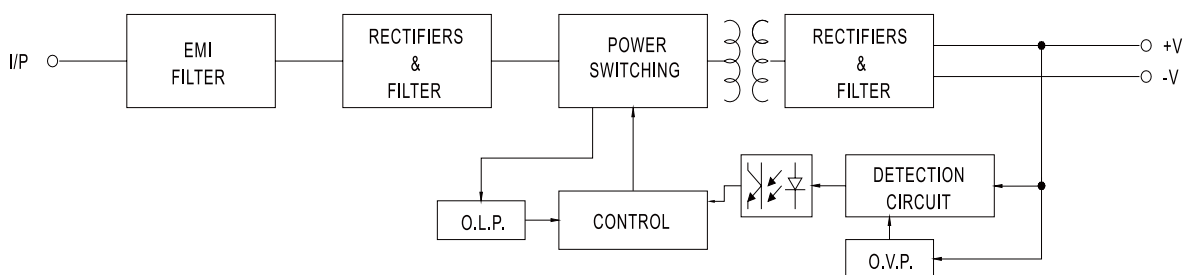
### Input

No.	Description
1	+V
2	-V

### Output

No.	Description
3	AC/L
4	AC/N

## Functional Diagram

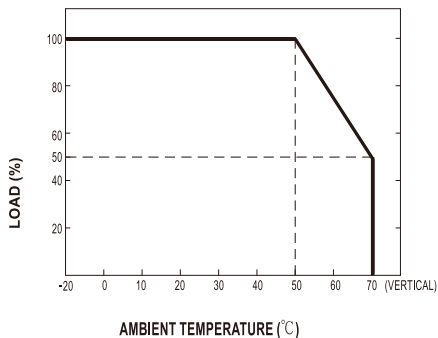


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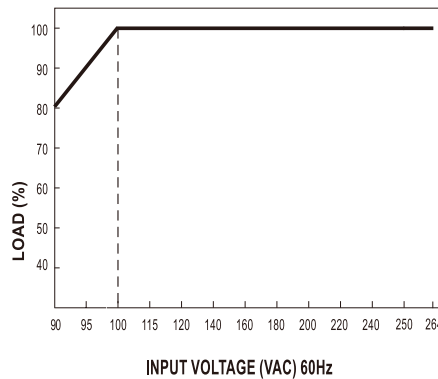
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## Deduction Curve and Temperature



## Minus Output and Input Voltage Curves



## Part Number Table

Description	Part Number
DIN Rail Mount Power Supply, 5V, 3A	MP30S-0503000
DIN Rail Mount Power Supply, 12V, 2.5A	MP30S-1202500
DIN Rail Mount Power Supply, 15V, 2A	MP30S-1502000
DIN Rail Mount Power Supply, 24V, 1.5A	MP30S-2401500
DIN Rail Mount Power Supply, 48V, 0.63A	MP30S-4800630

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