

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 .

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

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
- DC Output Voltage Adjustable
- Over Voltage Category II

Model Information

Part Number	DC Voltage	Rated Current	Rated Power
MP100S-1207100	12V	7.1A	85.2W
MP100S-2404170	24V	4.17A	100W
MP100S-4802080	48V	2.08A	100W

Input

Voltage Range	90-264V AC, 127-370V DC
Frequency Range	47-63Hz
Inrush Current	Cold Start 35A/115V AC, 70A/230V AC
AC Current	3A/115V AC, 1.6A/230V AC
Efficiency	88% - MP100S-1207100 90% - MP100S-2404170 90% - MP100S-4802080

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Output

Ripple & Noise	120mVp-p - MP100S-1207100 150mVp-p - MP100S-2404170 240mVp-p - MP100S-4802080
Voltage Tolerance	12-13V - MP100S-1207100 21.6-29V - MP100S-2404170 43.2-55.2V - MP100S-4802080
Voltage Tolerance	±2%
Line Regulation	±1%
Load Regulation	±1%
Setup, Rise Time	500ms, 50ms/100-240V AC at full load
Hold Up Time (Typ.)	30ms/100-240V AC at full load

Protection

Over Load	102 ~ 110% rated output power ; (Below 92.2W) 105 ~ 150% rated output power above 92.2W) 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	14.2-16.2V - MP100S-1207100 30-36V - MP100S-2404170 56.5-64.8V - MP100S-4802080 Protection type : Shut down O/p voltage, 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	800K hrs min. MIL-HDBK-217F (25°C)

1. All parameters NOT specially mentioned at 230V AC 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 to 10-15mm 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).

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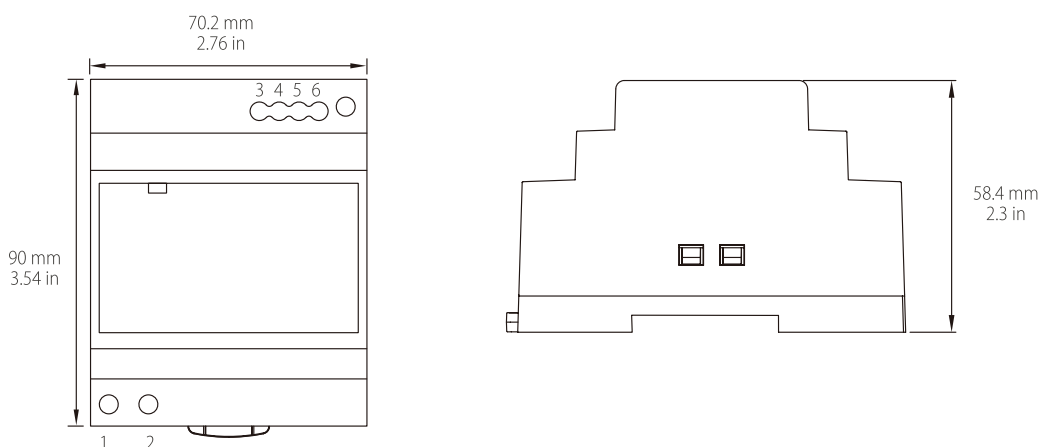
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Dimensions & Weight

Length	: 90mm / 3.54 in
Width	: 70.2mm / 2.76in
Height	: 58.4mm / 2.3in
Weight	: 270

Dimensions and Installation



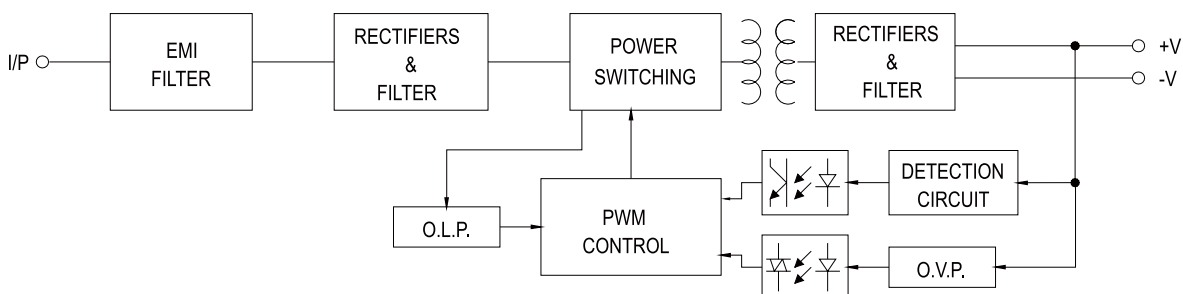
Input

No.	Description
1	AC/L
2	AC/N

Output

No.	Description
3,4	-V
5,6	+V

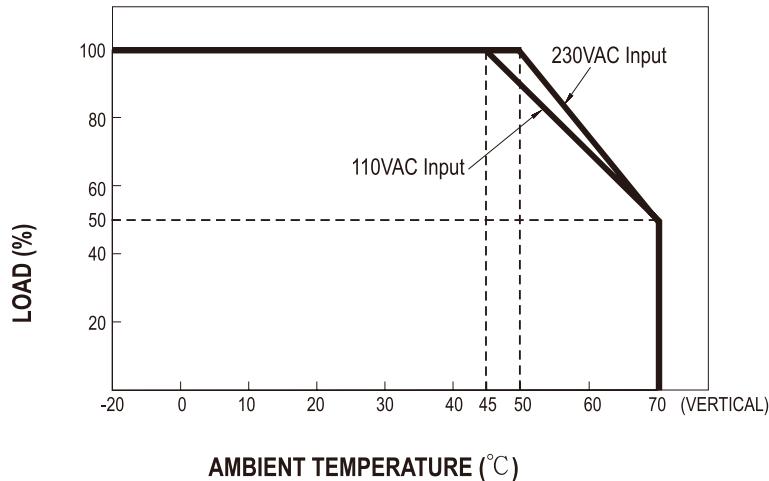
Functional Diagram



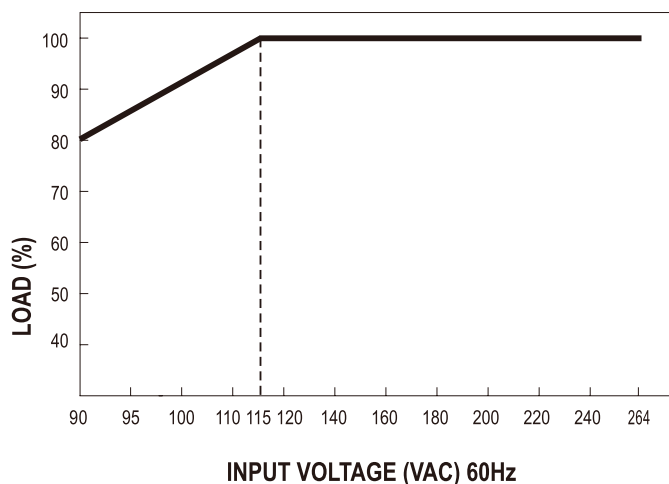
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Deduction Curve and Temperature



Minus Output and Input Voltage Curves



Part Number Table

Description	Part Number
DIN Rail Mount Power Supply, 12V, 7.1A	MP100S-1207100
DIN Rail Mount Power Supply, 24V, 4.17A	MP100S-2404170
DIN Rail Mount Power Supply, 48V, 2.08A	MP100S-4802080

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