

# DIN Rail Mount Power Supply AC To DC

**multicomp**PRO

**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
- Over Voltage Category II

## Model Information

Part Number	DC Voltage	Rated Current	Rated Power
MP15S-0502400	5V	24A	12W
MP15S-1201250	12V	1.25A	15W
MP15S-1501000	15V	1A	15W
MP15S-2400630	24V	0.63A	
MP15S-4800310	48V	0.31A	

## 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	0.5A/115V AC, 0.25A/230V AC
Efficiency	80% - MP15S-0502400 85% - MP15S-1201250 85.5% - MP15S-1501000 86% - MP15S-2400630 87% - MP15S-4800310

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

**multicomp**PRO

# DIN Rail Mount Power Supply

## AC To DC

**multicomp**PRO

### Output

Ripple & Noise	80mVp-p - MP15S-0502400 120mVp-p - MP15S-1201250 120mVp-p - MP15S-1501000 120mVp-p - MP15S-2400630 240mVp-p - MP15S-4800310
Voltage ADJ. Range	45~5.5V - MP15S-0502400 45~5.5V - MP15S-1201250 13.5~18V - MP15S-1501000 21.6~29V - MP15S-2400630 43.2~55.2V - MP15S-4800310
Voltage Tolerance	±2%
Line Regulation	±1%
Load Regulation	±1%
Setup, Rise Time	2000ms, 80ms/230V AC at full load 2000ms, 80ms/115V AC at full load
Hold Up Time (Typ.)	30ms/230V AC at full load 12ms/115V AC at full load

### Protection

Over Load	110 ~ 145% 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 ~ 6.75V - MP15S-0502400 14.2 ~ 16.2V - MP15S-1201250 18.8 ~ 22.5V - MP15S-1501000 30 ~ 36V - MP15S-2400630 56.5 ~ 64.8V - MP15S-4800310 Protection type : Shut off o/p clamping by zener diode

### 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 ~ 500Hz, 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	1000K hrs min. MIL-HDBK-217F (25°C)

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

**multicomp**PRO

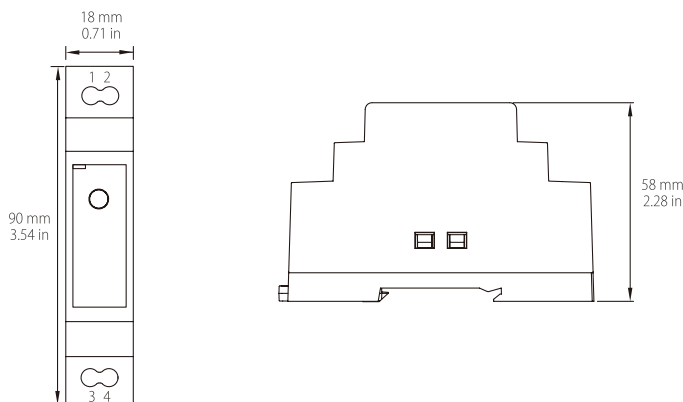
# DIN Rail Mount Power Supply AC To DC

**multicomp**PRO

## Dimensions & Weight

Length	: 18mm / 0.71in
Width	: 90mm / 3.54in
Height	: 58mm / 2.28in
Weight	: 78g

## Dimensions and Installation



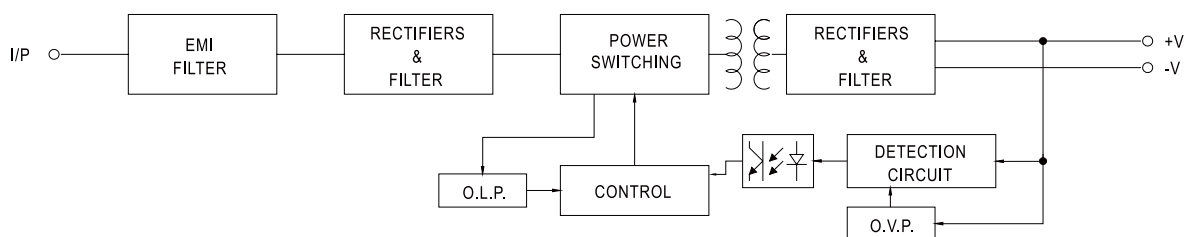
### Input

No.	Description
1	+V
2	-V

### Output

No.	Description
3	AC/N
5	AC/L

## Functional Diagram

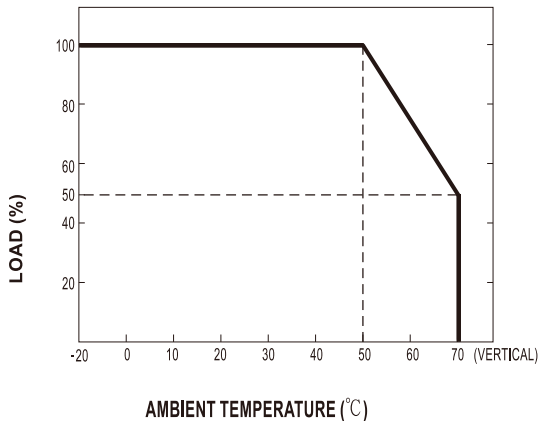


**multicomp**PRO

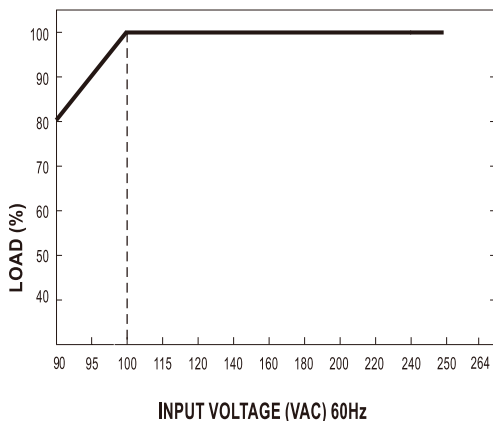
# DIN Rail Mount Power Supply AC To DC

**multicomp**PRO

## Deduction Curve and Temperature



## Minus Output and Input Voltage Curves



## Part Number Table

Description	Part Number
DIN Rail Mount Power Supply, 5V, 2.4A	MP15S-0502400
DIN Rail Mount Power Supply, 12V, 1.25A	MP15S-1201250
DIN Rail Mount Power Supply, 15V, 1A	MP15S-1501000
DIN Rail Mount Power Supply, 24V, 0.63A	MP15S-2400630
DIN Rail Mount Power Supply, 48V, 0.31A	MP15S-4800310

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

**multicomp**PRO