

# 30W AC-DC Din Rail Mounted Power Supplies

**multicomp** PRO

**RoHS  
Compliant**



## Features

- Compact DIN rail mounting package
- Single phase input voltage
- Universal AC input voltage range from 90V AC to 264V AC
- High performance and reliability
- 100% full load burn-in test
- Free Air Convection Cooling
- LED indicator for DC power on and DC low
- Short circuit, over voltage, over current and over temperature protection

## Applications

- Process Control
- Factory Automation
- Traffic & Transportation System
- Other industrial Applications

## Electrical

Part Number	Nominal Input Voltage	Output Voltage	Output Current	Ripple (Typ.)	Efficiency (Typ.)	Certificate
MP003276	100V AC to 240V AC	12V	2.5A	42mV	83%	CE, FCC, CB, UL, CUL
MP003277		24V	1.3A	46mV	87%	CE, FCC, CB, UL, CUL

### NOTE:

1. The ripple values are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1uF & 47uF parallel capacitor under ambient temperature 25°C at rated input voltage and rated load;
2. The efficiency values are measured under ambient temperature 25°C at rated input voltage and rated load.

## Input

Parameter	Conditions	MIN	TYP	MAX	Units
Input voltage		90		264	V AC
Input frequency		47		63	Hz
Input current	Full load, Vin=115V AC Full load, Vin=230V AC		0.65 0.35		A A
Inrush current	Cold start, Vin=115V AC			30	A
	Cold start, Vin=230V AC			60	A
	1. This product is built in inrush limiting circuit to protect the circuit from surge current damages when the power is turned on. Malfunction can occur by repeating the input voltage on and off rapidly. Therefore, sufficient interval should be given between turning on and off the power; 2. To avoid connecting the switch or fuse to input terminal (outside of the power supply), more consideration should be given when selecting the parts that can endure the inrush current				
Stand-by power consumption	Vin=230V AC		1		W
Surge voltage	L-N		2		KV

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
Element14.com/multicomp-pro

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## Output

Parameter	Conditions	MIN	TYP	MAX	Units
Output voltage accuracy			±1		%
Output voltage adjustment range	MP003276:		11.6-12.3		V
	MP003277:		23.5-24.5		V
	Output voltage can be adjusted within above range by V-ADJ. Variable resistance inside of the power supply. When output voltage exceeds the range, the power supply will be in failure or get into over voltage protection mode. To avoid the case that the output voltage is higher than rated voltage, output current should be used under rated current				
Minimum load		0			A
Line regulation	Vin from 100V AC to 240V AC		1		%
Load regulation	Vout from min. to 24V.		1		%
Turn-on delay time	Full load, Vin=115V AC		100		ms
Hold up time	Full load, Vin=115V AC		20		ms

## Protection

<b>Short circuit</b>	Hiccuo mode, it will recover automatically after fault condition is removed
<b>Over voltage</b>	MP003276: over voltage protection value 16V MP003277: over voltage protection value 30V
	(1) When output voltage exceeds above over voltage protection value or reversal voltage occurs, the protection will be started and the output voltage will be cut off in order to protect the power supply; (2) The power supply will recover after the power is turned on again
<b>Over current</b>	MP003276: over current protection value 4A MP003277: over current protection value 2.2A
	(1) When output voltage exceeds above over current protection value, the protection will be started and the output voltage will be cut off in order to protect the power supply; (2) The power supply will recover automatically after the fault condition is removed
<b>Over temperature</b>	Over temperature protection value: 110 ±10°C
	(1) When the ambient temperature exceeds above over temperature protection value, the protection will be started and the output voltage will be cut off in order to protect the power supply; (2) The power supply will recover after the power is turned on again