

70W 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 (Max.)	Efficiency (Typ.)	Certificate
MP003281	100V AC to 240V AC	12V	5A	100mV	84%	CE, FCC, CB, UL, CUL
MP003282		24V	3A	120mV	86%	

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			1.6 0.8	A A
Inrush current	Cold start, Vin=115V AC Cold start, Vin=230V AC			30 60	A 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			4	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				2	%
Output voltage adjustment range	MP003281		11-14		V
	MP003282		23-28		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			2	%
Load regulation	Vout from min. to 24V			3	%
Turn-on delay time	Full load, Vin=115V AC		560		ms
Hold up time	Full load, Vin=115V AC		20		ms

Protection

Short circuit	Shut off output voltage, the power supply will recover after the power is turned on again
Over voltage	MP003281: over voltage protection value 20V MP003282: over voltage protection value 33V
	(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
Over current	MP003281: over current protection value 8A MP003282: over current protection value 4A
	(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
Over temperature	Over temperature protection value: 100 ±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