MPS-075W□FS Series

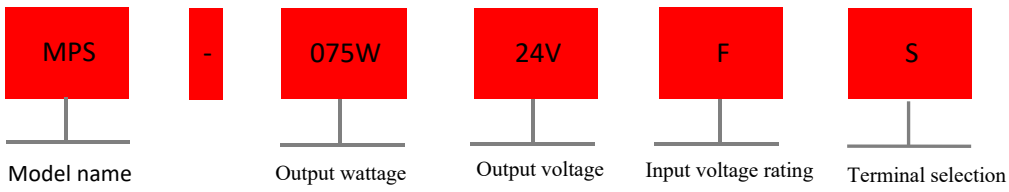
▲ Features

Superior performance with small ripple
100% full load burn-in test
Protections:short circuit/overload/over voltage
LED indicator for power on
Optional rail mounting bracket can be installed on DIN rail TS35
Instant overload capability is 120-180%
Cooling by free air convection
Seismic protection
“Three pivot points”M4 large caliber installation
“Three proof”treatment，suitable for severe environment
Terminal with protective cover
All aluminum case
Surge protection
3 years warranty

▲ Applications

Industrial automation control system
Intelligent control system
Electronic instruments and devices
LED control
Household appliances

▲ Model Encoding



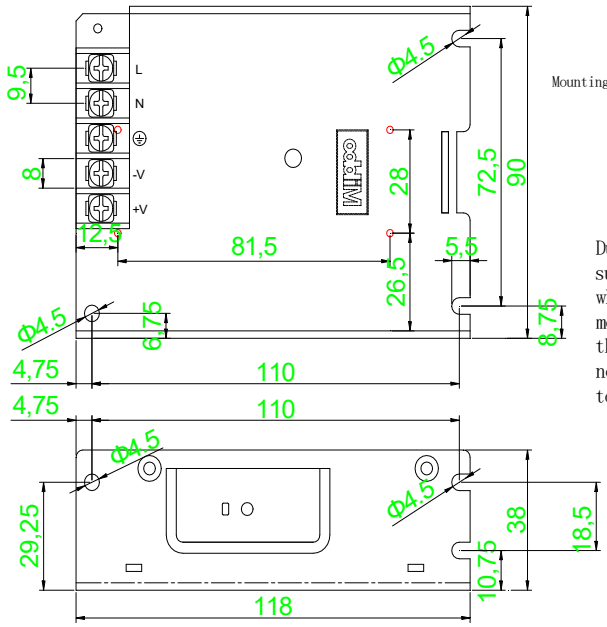
Mibbo

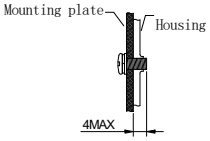
Specification

Input						
Voltage range	85-264VAC 120-370VDC					
AC current	1.5A/115VAC 0.9A/230VAC					
Frequency range	47-63Hz					
Inrush current (max)	22A/115VAC 44A/230VAC					
Output						
DC voltage (V)	5V	7.5V	12V	15V	24V	48V
Efficiency	80%	80%	83%	84%	86%	86%
Voltage ADJ.range	±10%					
Rated Current(A)	14A	10A	6.2A	5A	3.13A	1.57A
Rated power(W)	70W	75W	74.4W	75W	75.1W	75.3W
Ripple & noise(max) Note.2	70mVp-p	100mVp-p	110mVp-p	110mVp-p	110mVp-p	180mVp-p
Voltage tolerange Note.3	±2%	±1%	±1%	±1%	±1%	±1%
Line regulation Note.4	±0.5%					
Load regulation Note.5	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Setup，rise time	500ms 30ms/230VAC 1200ms 30ms/115VAC(at full load)					
Hold up time	50ms/230VAC 10ms/115VAC(at full load)					
Status indicator	Green LED					
Protection						
Overload	120%-180% rated output power					
	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
Over voltage(V)	5.6-6.8V	8.6-10.1V	13.8-16.2V	18-21V	27.6-32.4V	57.6-67.2V
	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
Three proof treatment	Suitable for high dust, condensation occasions					
Safety and EMC						
Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
Isolation resistance	I/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70％RH					
Safety standards	Design refer to EN IEC 62368-1、GB4943.1					
EMC emission	**Parameter**		**Standard**		**Test Level**	
	Conducted		EN 55032		Class A	
	Radiated		EN 55032		Class A	
	Voltage Flicker		EN 61000-3-3		Design refer to Class A	
	Harmonic Current		EN IEC 61000-3-2		Design refer to Class A	
EMC immunity	**Parameter**		**Standard**		**Test Level**	
	ESD		EN 61000-4-2		Level 3 8KV air;Level 2 4KV contact	
	Radiated Susceptibility		EN 61000-4-3		Level 2 3V/m	
	EFT/Burest		EN 61000-4-4		Level 3 2KV	
	Surge		EN 61000-4-5		Level 3 2KV/Line-Line;Level3 4kV/Line-Line-FG	
	Conducted		EN 61000-4-6		Level 2 3V	
	Magnetic Field		EN 61000-4-8		Level 2 3A/m	
	Voltage Dips and interruptions		EN 61000-4-11		< 5% residual voltage for 0.5 cycles ,70% residual voltage for 25 cycles , < 5% residual voltage for 250 cycles:	
Environmental						
Working temperature	- 25～+60℃(Refer to "Derating curve ")					
Storage temperature	- 40～+85℃					
Storage humidity	10-95％RH					
Vibration	Component:10-500Hz,2G 10 min/1cycle 60 min each along X,Y,Z axes					

Others		
Mean time between failure	≥370K hrs,MIL-HDBK-217F(25℃)	
Installation	Plate screws fixed, or optional accessories can be TS35 guide rail installation	
Protection class	IP20	
Weight	About 0.32Kg	
Length*width*height	118*90*38mm	
Data	**Details**	**Model name**
	MPS 70.0W 14.0A/05V	MPS-075W05VFS
	MPS 75.0W 10.0A/7.5V	MPS-075W07VFS
	MPS 74.4W 6.2A/12V	MPS-075W12VFS
	MPS 75.0W 5.0A/15V	MPS-075W15VFS
	MPS 75.1W 3.13A/24V	MPS-075W24VFS
	MPS 75.3W 1.57A/48V	MPS-075W48VFS
Attachment	**Details**	**Model name**
Rail pin	TS35 installation accessories	MPS-F050B

Installation Instruction



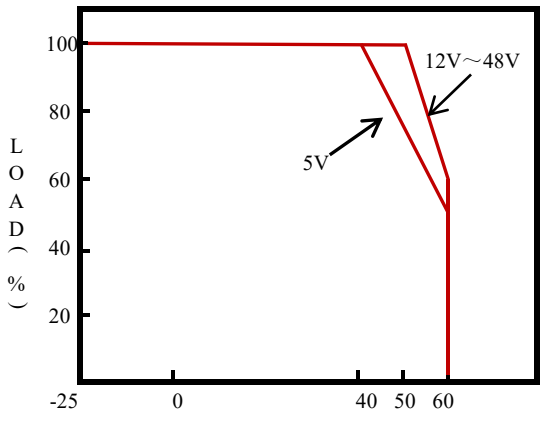


Due to the high voltage inside the power supply ,please kindly ensure the safety when installing the screws in the red mounting hole ,It is necessary to ensure that the size in the drawing above in not more than 4mm,and the installation torque is not more than 1.2N.m

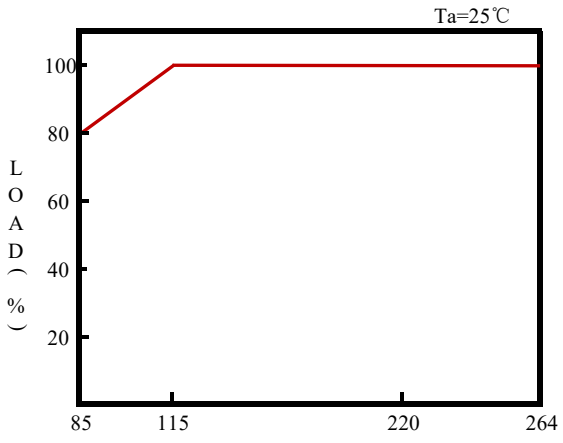
Installation instructions

Terminal Spec	U Type of the width of the terminal	Wire installation specification	Max.Torque
95 Terminal	8mm MAX	22-12AWG	1.2N.m(MAX)

Derating curve



Ambient temperature（℃）



Input voltage（VAC)60Hz

Note:
1.All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25℃ of ambient temperature.
2.Ripple & noise are measured at 20MHZ of bandwidth by using a 12"twisted pair-wire teminated with a 0.1uf & 47uf parallel capacitor."
3.Tolerance:includes set up tolerance,line regulation and load regulation.
4.Line regulation is measured from low line to high line at rated load.
5.Load regulation is measured from 0% to 100% rated load.
6.According to the requirements of GB4943.1,the power supply is only used for safe use in areas below sea level of 2000M and non-tropical climates.