MPS-024W□FB Series

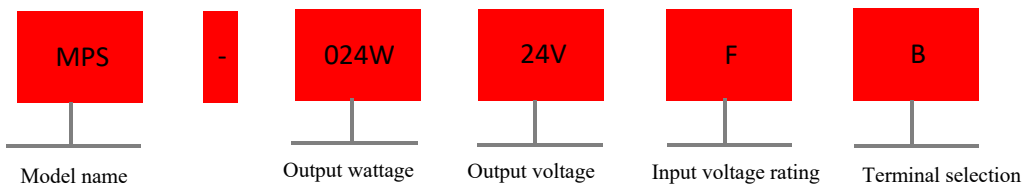
▲ Features

Superior performance with small ripple
Universal AC input/Full range
100% full load burn-in test
Protections:short circuit/overload/over voltage
LED indicator for power on
Small size, standard front mounting accessories
Cooling by free air convection
Seismic protection
Surge protection
3 years warranty

▲ Applications

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

▲ Model Encoding



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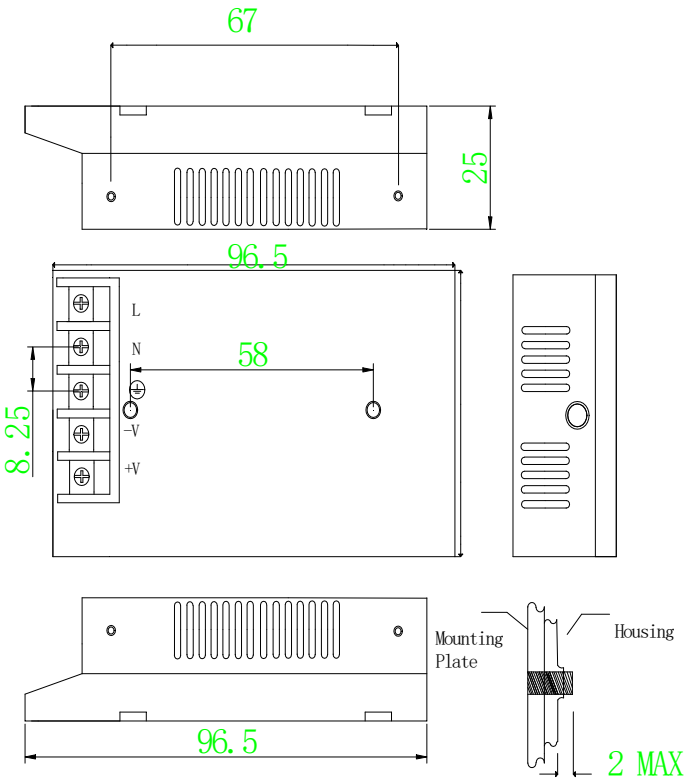
Specification

Input						
Voltage range	85-264VAC 120-370VDC					
AC current	0.55A/115VAC 0.35A/230VAC					
Frequency range	47-63Hz					
Inrush current (max)	22A/115VAC 44A/230VAC					
Output						
DC voltage (V)	3.3V	5V	12V	15V	24V	48V
Efficiency	80%	80%	83%	84%	86%	86%
Voltage ADJ.range	±10%					
Rated Current(A)	4.5A	4A	2A	1.6A	1A	0.5A
Rated power(W)	14.8W	20W	24W	24W	24W	24W
Ripple & noise(max) Note.2	25mVp-p	25mVp-p	25mVp-p	35mVp-p	35mVp-p	40mVp-p
Voltage tolerange Note.3	±2%	±2%	±1%	±1%	±1%	±1%
Line regulation Note.4	±0.5%					
Load regulation Note.5	±1%	±1%	±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%-150% rated output power					
	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
Over voltage(V)	3.7-4.2V	5.6-6.8V	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					
Safety and EMC						
Withstand voltage	I/P-O/P:2KVAC 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 standard	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	≥240K hrs,MIL-HDBK-217F(25℃)					
Installation	Back mounting, standard mounting accessories for front mounting					
Protection class	IP20					
Weight	About 0.12Kg					
Length*width*height	96.5*58*25mm					

Data	Details	Model name
	MPS 14.8W 4.5A/3.3V	MPS-024W03VFB
	MPS 20.0W 4.0A/05V	MPS-024W05VFB
	MPS 24.0W 2.0A/12V	MPS-024W12VFB
	MPS 24.0W 1.6A/15V	MPS-024W15VFB
	MPS 24.0W 1.0A/24V	MPS-024W24VFB
	MPS 24.0W 0.5A/48V	MPS-024W48VFB
Attachment	**Details**	**Model name**
Rail pin	Mounting accessories	MPS-F110B

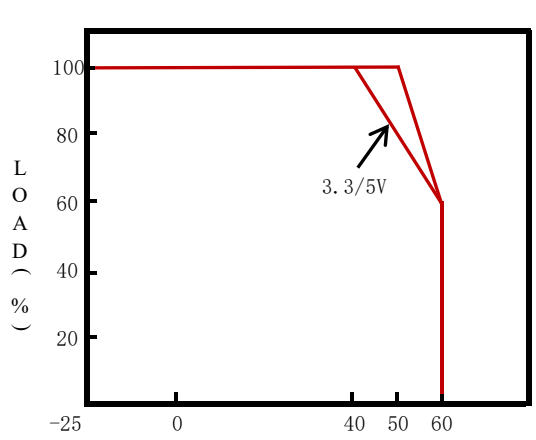
Installation Instruction

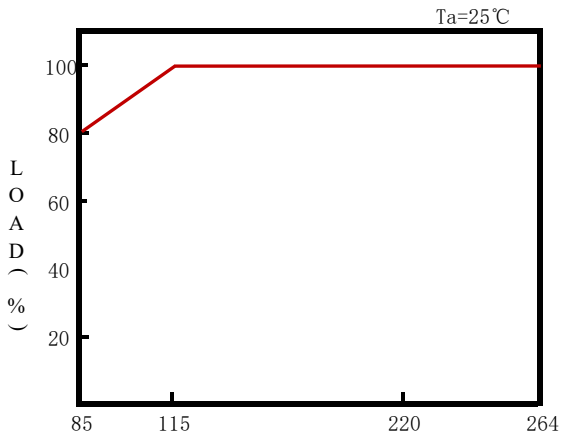


Installation instructions

Terminal Spec	U Type of the width of the terminal	Wire installation specification	Max. Torque
635 Terminal	6mm MAX	22-14AWG	0.8N.m(MAX)

Derating curve





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.