

MPS-024W□FB Series



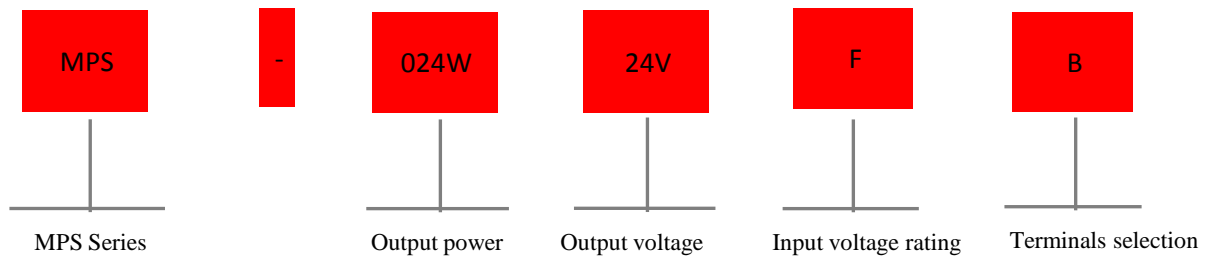
▲ Character

- The ripple performance is superior
- Universal, full range of exchange input
- 100% full aging
- Overvoltage, overload, short circuit protection
- LED work instruction
- Universal, full range of exchange input
- High efficient natural heat dissipation
- The seismic protection
- Surge protection
- Warranty 3 years

▲ Apply

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

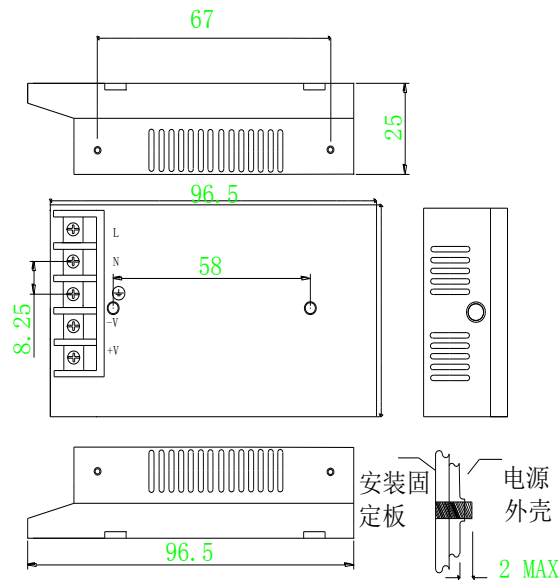
▲ Model code



Electrical specifications

Input parameter						
Input voltage	85-264VAC 120-370VDC					
Input current	0.55A/115VAC 0.35A/230VAC					
Input frequency	47-63Hz					
Surge current(max)	22A/115VAC 44A/230VAC					
Output parameter						
Direct rated voltage (V)	3.3	5	12	15	24	48
Frequency	80%	80%	83%	84%	86%	86%
Output voltage regulation range	±10%					
Rated current(A)	4.5	4.0	2.0	1.6	1.0	0.5
Rated power(W)	14.8	20.0	24.0	24.0	24.0	24.0
Ripple noise(max MVP-P) Note2	25	25	25	35	35	40
Voltage accuracy Note3	±2%	±2%	±1%	±1%	±1%	±1%
Line regulation Note4	±0.5%					
Load regulation Note5	±1%	±1%	±0.5%	±0.5%	±0.5%	±0.5%
Start up, rise time	500ms 30ms/230VAC 1200ms 30ms/115VAC (full load)					
Storage time	50ms/230VAC 10ms/115VAC (full load)					
Status indicator	Green LED					
Protect function						
Overload	Rated output power of 120%-150%					
	Protected mode:hiccup mode,the load exception can be automatically restored after an exception is removed					
Overvoltage(V)	3.7-4.2	5.6-6.8	13.8-16.2	18-21	27.6-32.4	57.6-67.2
	Protected mode:hiccup mode,the voltage exception can be automatically restored after an exception is removed					
Safety and electromagnetic compatibility						
Withstand voltage	I/P-O/P:2KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
Insulation impedance	I/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25°C/70% RH					
Safety specification Note6	Design reference GB4943.1					
Electromagnetic compatible emission	Design reference EN55022(CISPR22)Class B,EN61000-3-2,-3					
Electromagnetic compatible immunity	Design reference EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61000-6-1,A class a light industry standard					
Environmental parameters						
Working temperature	- 25~+60°C (>50°C Reduced rating, see temperature characteristic curve)					
Storage temperature	- 40~+85°C					
Storage humidity	10-95% RH					
Resistance to shock	10-500Hz,2G 10 minutes/Period X,Y,and Z axis 60 minutes					
The other parameters						
Mean time between failure	≥240K hrs,MIL-HDBK-217F(25°C)					
Installation	Back installation,standard installation accessories can be installed on the front					
Protection class	IP20					
Weight	About 0.12Kg					
Length*width*height	96*58*25mm					
Order data	Parameters to describes	Order type				
	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				
Accessory	Parameters to describes	Order type				
Guide card feet	Install accessories	MPS-F110B				

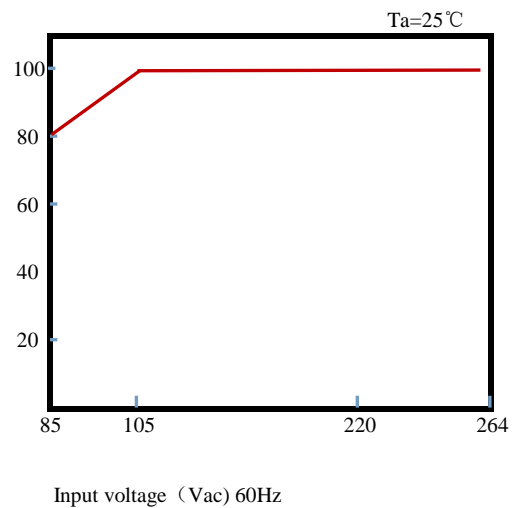
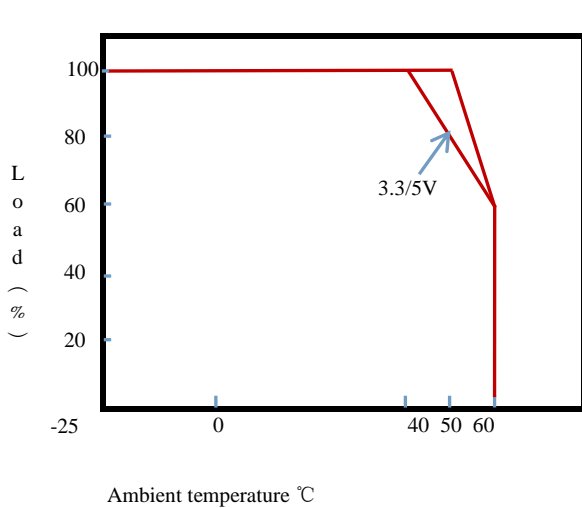
Installation diagram



接线端子安装说明

端子排规格	U形接线端子宽度	线材安装规格	最大扭矩
825端子排	6mm MAX	22-14AWG	0.8N.m (MAX)

Temperature profile



- Note**
- 1: If not specified otherwise, all of the specifications of the parameters in the input is 230VAC, rated load, 25 °C ambient temperature testing.
 - 2: Ripple and noise measurement method: using a pair of twisted pair, the output point needs to be shunt 0.1Uf and 47Uf capacitance, which is measured at 20MHZ bandwidth.
 - 3: Precision: includes setting error, linear adjustment rate and load adjustment rate.
 - 4: Measurement of linear adjustment rate: under rated load, from high voltage to low voltage test.
 - 5: Load adjustment rate measurement method: 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.