Mibbo

MPS-012W□FB Series

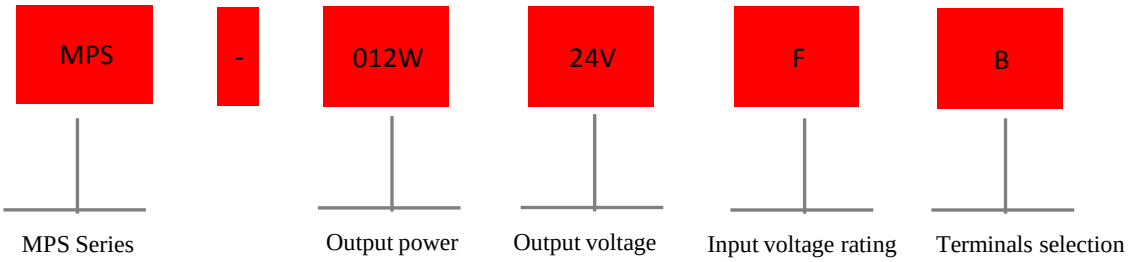
▲ **Character**

The ripple performance is superior
Universal,full range of exchange input
100% full aging
Overvoltage、overload、short circuit protection
LED work instruction
Small volume ,with a positive installation attachment
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**



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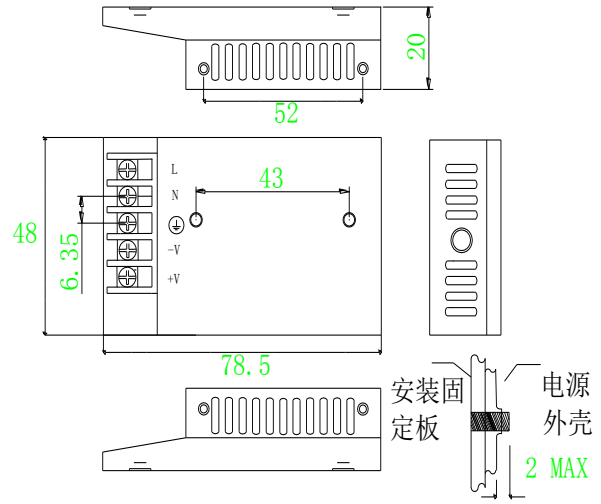
Electrical specifications

Input parameter					
Input voltage	85-264VAC 120-370VDC				
Input current	0.35A/115VAC 0.25A/230VAC				
Input frequency	47-63Hz				
Surge current(max)	22A/115VAC 44A/230VAC				
Output parameter					
Direct rated voltage (V)	3.3	5	12	15	24
Freguency	80%	80%	82%	82%	83%
Output voltage regulation range	±10%				
Rated current(A)	2.4	2.4	1	0.8	0.5
Rated power(W)	7.9	12	12	12	12
Ripple noise(max MVP-P)Note2	25	25	30	35	40
Voltage accuracy Note3	±2%	±2%	±1%	±1%	±1%
Line regulation Note4	±0.5%				
Load regulation Note5	±1%	±1%	±0.5%	±0.5%	±0.5%
Start up，rise time	500ms 30ms/230VAC 1000ms 30ms/115VAC(full load)				
Storage time	100ms/230VAC 20ms/115VAC(full load)				
Status indicator	Green LED				
Protect function					
Overload	Rated output power of 110%-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
	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℃/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℃（＞50℃Reduced rating，see temperature characteristic curve）				
Storage temperature	－40～+85℃				
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℃)				
Installation	Back installation,standard installation accessories can be installed on the front				
Protection class	IP20				
Weight	About 0.07Kg				
Length*width*height	78*48*21mm				

Order data	**Parameters to describes**	**Order type**
	MPS 7.9W 7.2A 3.3V	MPS-012W03VFB
	MPS 12W 2.4A 05V	MPS-012W05VFB
	MPS 12W 1A 12V	MPS-012W12VFB
	MPS 12W 0.8A 15V	MPS-012W15VFB
	MPS 12W 0.5A 24V	MPS-012W24VFB
Accessory	**Parameters to describes**	**Order type**
Guide card feet	Install accessories	MPS-F090B

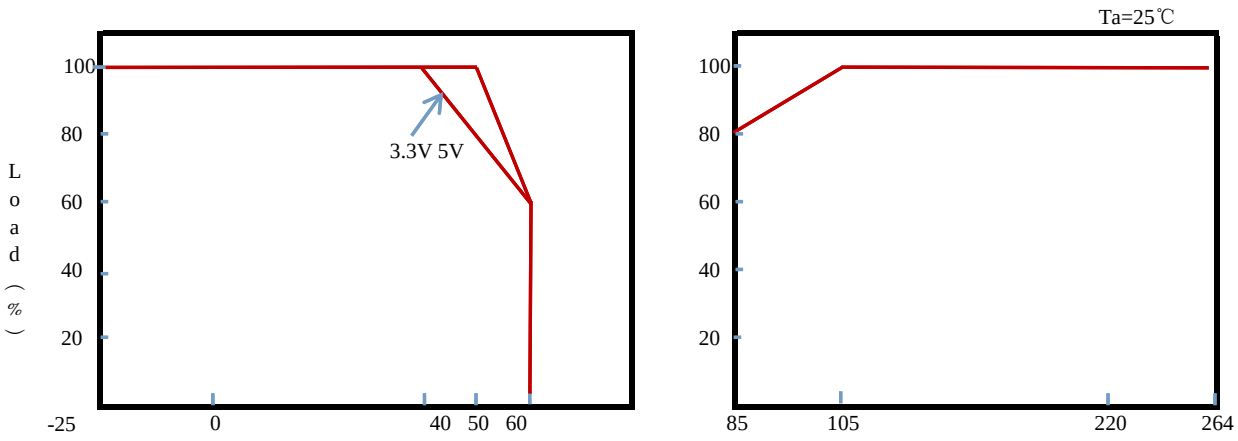
Installation diagram



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
635端子排	5mm MAX	22-16AWG	0.4N.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 ℃ 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.