



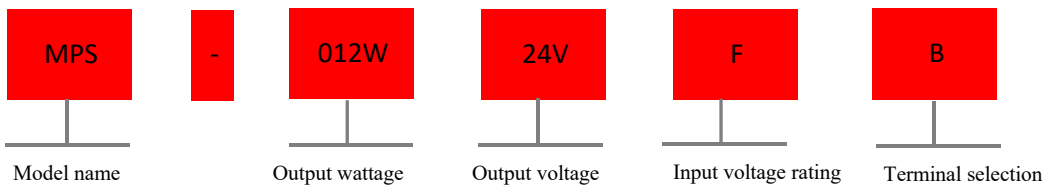
### ▲ Features

- 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



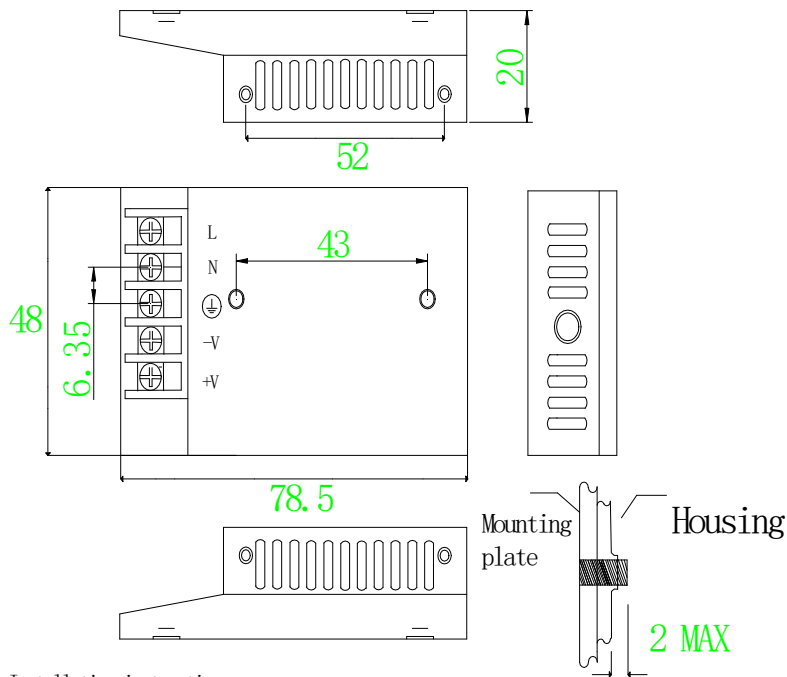


## Specification

Input					
Voltage range	85-264VAC 120-370VDC				
AC current	0.35A/115VAC 0.25A/230VAC				
Frequency range	47-63Hz				
Inrush current (max)	22A/115VAC 44A/230VAC				
Output					
DC voltage (V)	3.3V	5V	12V	15V	24V
Efficiency	80%	80%	82%	82%	83%
Voltage ADJ.range	±10%				
Rated Current(A)	2.4A	2.4A	1A	0.8A	0.5A
Rated power(W)	7.9W	12W	12W	12W	12W
Ripple & noise(max ) Note.2	25mVp-p	25mVp-p	30mVp-p	35mVp-p	40mVp-p
Voltage tolerance Note.3	±2%	±2%	±1%	±1%	±1%
Line regulation Note.4	±0.5%				
Load regulation Note.5	±1%	±1%	±0.5%	±0.5%	±0.5%
Setup, rise time	500ms 30ms/230VAC 1000ms 30ms/115VAC(at full load)				
Hold up time	100ms/230VAC 20ms/115VAC(at full load)				
Status indicator	Green LED				
Protection					
Overload	110%-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
	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 0.07Kg	
Length*width*height	78.5*48*20mm	
Data	Details	Model name
	MPS 7.9W 2.4A/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
Attachment	Details	Model name
Rail pin	Mounting accessories	MPS-F090B

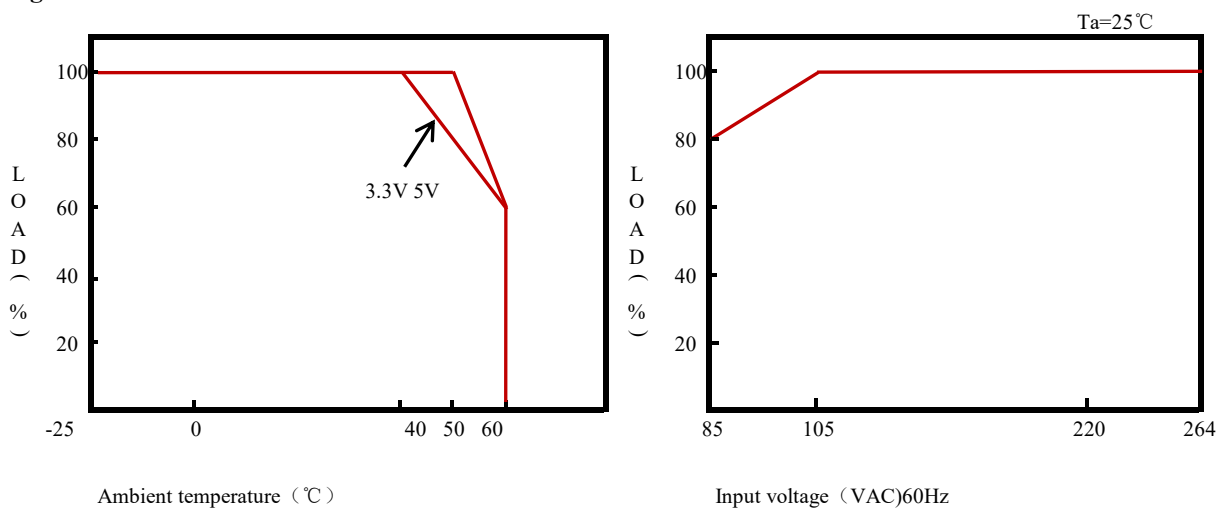
## Installation Instruction



Installation instructions

Terminal Spec	U Type of the width of the terminal	Wire installation specification	Max. Torque
635 Terminal	5mm MAX	22-16AWG	0.4N. m(MAX)

## Derating curve



- Note:**
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
  2. Ripple & noise are measured at 20MHZ of bandwidth by using a 12" twisted pair-wire terminated 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.