



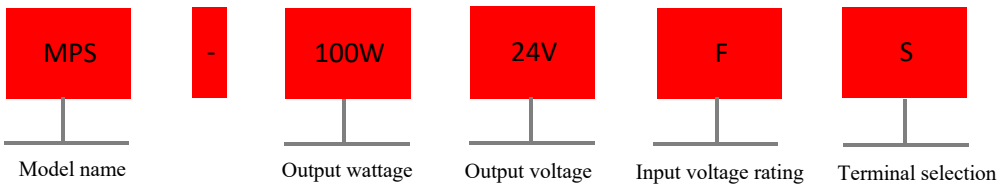
### ▲ Features

- 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%-150%
- 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



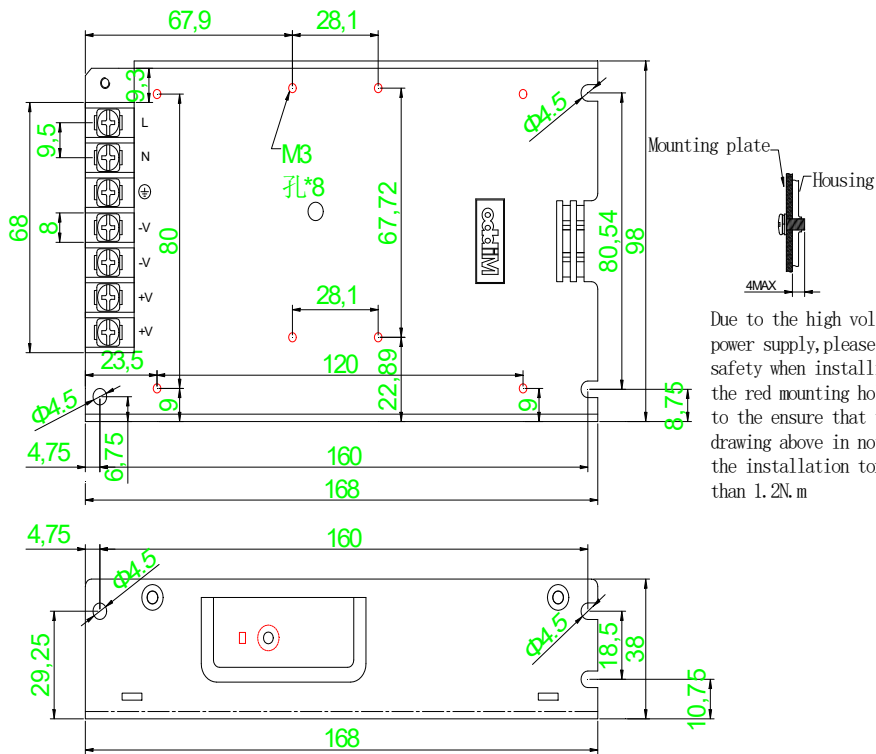


## Specification

Input									
Voltage range	85-264VAC 120-370VDC								
AC current	2.0A/115VAC 1.2A/230VAC								
Frequency range	47-63Hz								
Inrush current (max)	22A/115VAC 44A/230VAC								
Output									
DC voltage (V)	3.3V	5V	7.5V	9V	12V	15V	24V	36V	48V
Efficiency	78%	78%	78%	85%	85%	86%	88%	88%	88%
Voltage ADJ.range	±10%								
Rated Current(A)	20A	16A	13.4A	11.2A	8.4A	6.7A	4.2A	2.8A	2.1A
Rated power(W)	66W	80W	100.5W	100.8W	100.8W	100.5W	100.8W	100.8W	100.8W
Ripple & noise(max) Note.2	80mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p	120mVp-p	130mVp-p	130mVp-p	150mVp-p
Voltage tolerance Note.3	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
Line regulation Note.4	±0.5%								
Load regulation Note.5	±1%	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Setup, rise time	1000ms 20ms/230VAC 1000ms 20ms/115VAC(at full load)								
Hold up time	30ms/230VAC 25ms/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	8.6-10.1V	10.4-12.2V	13.8-16.2V	18-21V	27.6-32.4V	41.4-46.8V	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	≥320K hrs,MIL-HDBK-217F(25℃)								
Installation	Plate screws fixed, or optional accessories can be TS35 guide rail installation								
Protection class	IP20								
Weight	About 0.45Kg								
Length*width*height	168*98*38mm								

Data	Details	Model name
	MPS 66W 20.0A/3.3V	MPS-100W03VFS
	MPS 80W 16.0A/05V	MPS-100W05VFS
	MPS 100.5W 13.4A/7.5V	MPS-100W07VFS
	MPS 100.8W 11.2A/09V	MPS-100W09VFS
	MPS 100.8W 8.4A/12V	MPS-100W12VFS
	MPS 100.5W 6.7A/15V	MPS-100W15VFS
	MPS 100.8W 4.2A/24V	MPS-100W24VFS
	MPS 100.8W 2.8A/36V	MPS-100W36VFS
	MPS 100.8W 2.1A/48V	MPS-100W48VFS
Attachment	Details	Model name
Rail pin	TS35 installation accessories	MPS-F050C

## Installation Instruction

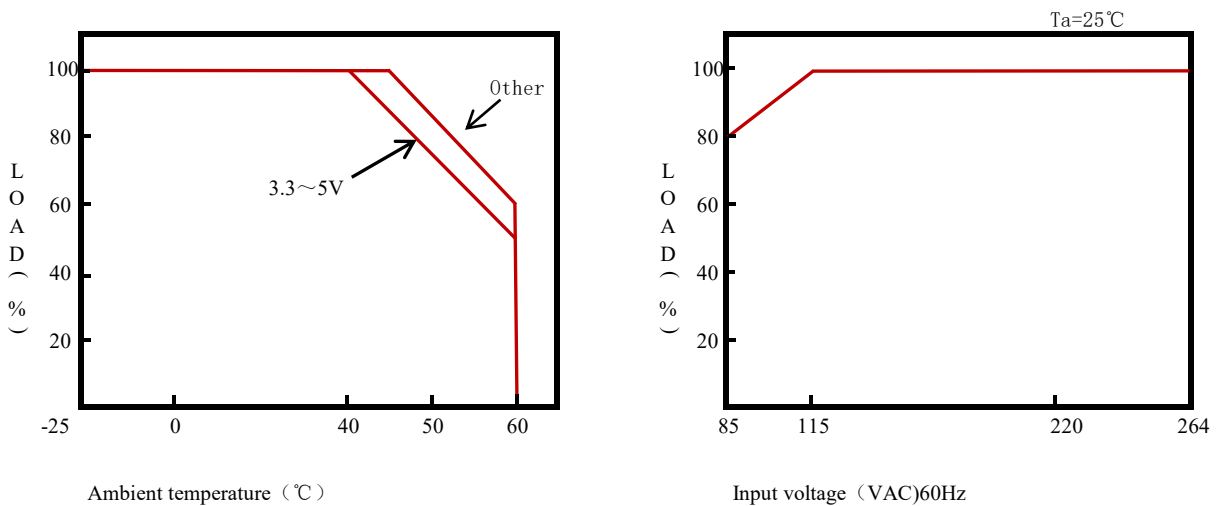


Due to the high voltage inside the power supply, please kindly ensure the safety when installing the screws in the red mounting hole. It is necessary to ensure that the size in the drawing above is not more than 4mm, and the installation torque is not more than 1.2N.m

### 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



- 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.