Mibbo

MPA100-□1 Series

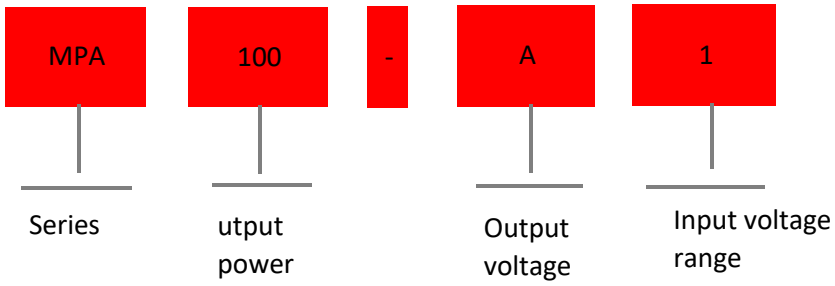
▲ Specifecation

100% full load burn-in test
Protection: Over Voltage/Over load/Short circuit
Power ON LED indicator
TS 35 rail installation(with optional rail mounting bracket)
Seismic protection
“Three pivot point”M4 installation
Three proof treatment, suitable the applicatiin in severe environment
Terminal with protective cover
Alluminum case
Surge protection
2 years warranty

▲ Applications

Industrial automation control system
Intelligent control system
Electonic instruments and devices
LED power supply
Household appliances

▲ Model encoding



Mibbo

Specification

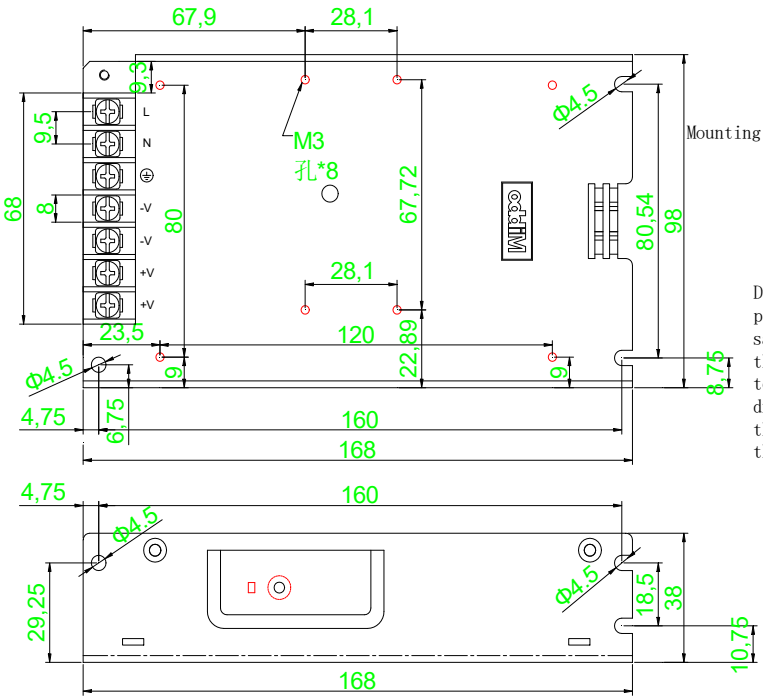
Input																
Voltage range	176-264VAC 250-370VDC															
AC current	1.2A/230VAC															
Frequency range	47-63Hz															
Inrush current (max)	44A/230VAC															
Output																
Chanel	Ch1	Ch2	Ch1	Ch2	Ch1	Ch2	Ch1	Ch2	Ch1	Ch2	Ch1	Ch2	Ch1	Ch2	Ch1	Ch2
DC voltage （V)	5V	12V	5V	24V	12V	24V	5V	48V	12V	48V	-5V	+5V	-12V	+12V	-15V	+15V
Efficiency	80%		83%		83%		84%		84%		80%		82%		82%	
Voltage ADJ range	Ch1:4.75-5.5V		Ch1:4.75-5.5V		Ch1:11.7-12.2V		Ch1:4.75-5.5V		Ch1:11.7-12.2V		Ch1:4.75-5.5V		Ch1:11.7-12.2V		Ch1:14.6-15.4V	
Rated current(A)	7A	3.8A	3.5A	3.5A	2.8A	2.8A	5.4A	1.5A	2A	1.6A	10A	10A	4.2A	4.2A	3.3A	3.3A
Rated power (W)	80.6W		101.5W		100.8W		99W		100.8W		100W		100.8W		99W	
Ripple & noise(max)note2	60mVp-p	80mVp-p	60mVp-p	80mVp-p	80mVp-p	80mVp-p	60mVp-p	100mVp-	80mVp-p	100mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p
Voltage tolerance note3	±2%	±6%	±2%	±8%	±2%	±8%	±2%	±10%	±2%	±10%	±2%	±2%	±2%	±6%	±2%	±6%
Line regulation noite4	±0.5%															
Load regulation note5	±1%	±2%	±1%	±4%	±1%	±4%	±1%	±5%	±1%	±5%	±1%	±1%	±1%	±2%	±1%	±2%
Setup, rise time	2000ms 30ms/230VAC(at full load)															
Hold up time	20ms/230VAC(at full load)															
Status indicator	绿色LED															
Protection																
Over load	110%-150% of the rated output power															
	Protection mode：Hiccup mode，recover automatically after fault condition is removed															
Over voltage (V)	Ch1:5.6-6.8V		Ch1:5.6-6.8V		Ch1:13.8-16.2V		Ch1:5.6-6.8V		Ch1:13.8-16.2V		Ch1:5.6-6.8V		Ch1:13.8-16.2V		Ch1:18-21V	
	Protection mode：Hiccup mode，recover automatically after fault condition is removed															
Three proof treatment	pplication in dusty and condesation environment															
Safety and EMC																
Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC															
Insulation resistance	I/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70％RH															
Safety standards *6	Design refer to EN IEC 62368-1、GB4943.1															

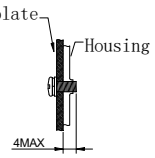
EMC emission	**Parameter**	**Standard**	**Test level**
	Conducted	EN 55032	Design refer to Class A
	Radiated	EN 55032	Design refer to Class A
	Voltage Flicker	EN 61000-3-3	Design refer to Class A
	Harmonic Current	EN IEC 61000-3-2	Design refer to Class A
EMC immunity	**Parameter**	**Standard**	**Test 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:

Environment	
Working temperature	- 25～+60℃（Refer to derating curve diagram）
Storage temperature	- 20～+85℃
Storage humidity	10-95％RH
Vibration resistance	10-500Hz,2G 10Min/Circle 60min in each X,Y,Z direction

Others		
MTBF	≥370K hrs,MIL-HDBK-217F(25℃)	
Installation	Screw in plate or install in TS35 rail with the accessory	
Protection class	IP20	
Weight	About 0.45Kg	
Dimension	168*98*38mm(Length* width* Height)	
Data	**Description**	**Model**
	MPA 100.2W 7A/5V 3.8A/12V	MPA100-A1
	MPA 101.5W 3.5A/5V 3.5A/24V	MPA100-B1
	MPA 100.8W 2.8A/12V 2.8A/24V	MPA100-C1
	MPA 99W 5.4A/5V 1.5A/48V	MPA100-D1
	MPA 100.8W 2.0A/12V 1.6A/48V	MPA100-F1
	MPA 100W 10.0A/-5V 10.0A/+5V	MPA100-G1
	MPA 100.8W 4.2A/-12V 4.2A/+12V	MPA100-H1
	MPA 99W 3.3A/-15V 3.3A/+15V	MPA100-I1
Accessory	**Description**	**Model**
Rail pin	TS35 mounting accessory	MPS-F050C

Installation instruction



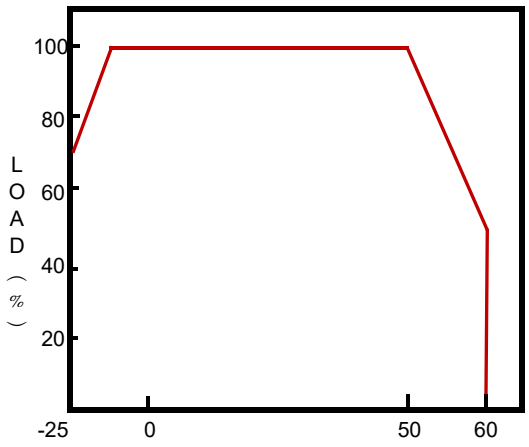


Due to the high voltage inside the power supply,please kindly ensure the safety when installing the screws in the red mounting hole ,It is necessary to the ensure that the size in the drawing above in not more than 4mm,and the installation torque is not more than 1.2N.m

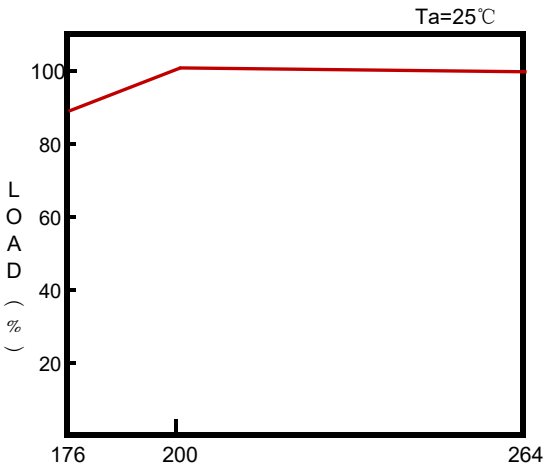
Installation Instructions

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



Ambient temperature（℃）



Input voltage（Vac)60Hz

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 high voltage to low voltage of 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.