Mibbo

MPA200-□1 Series

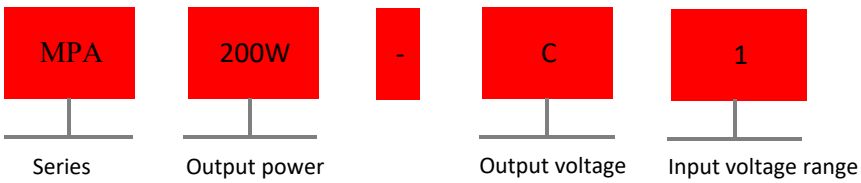
▲ Specifecation

100% full load burn-in test
Protection: Over-temp./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
Seismic protection
2 years warranty

▲ Applications

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

▲ Model encoding



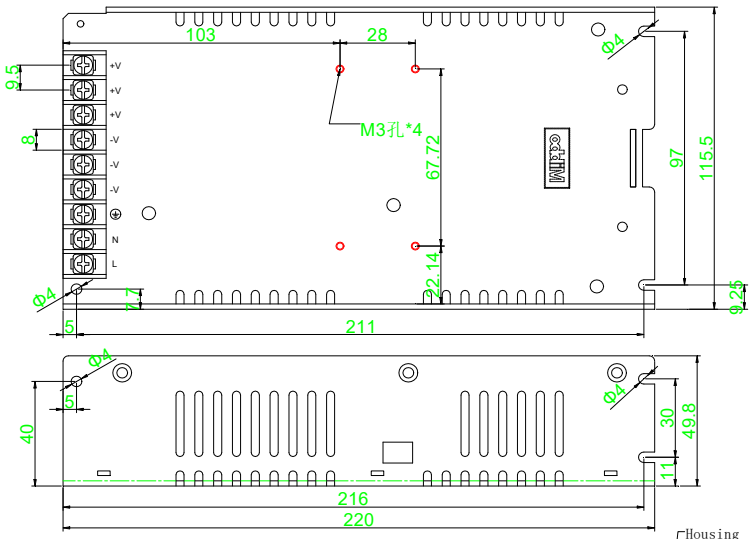
Mibbo

Specification

Input																
Voltage range	176-264VAC 250-370VDC															
AC current	2.5A/230VAC															
Frequency range	50Hz															
Inrush current (max)	55A/230VAC															
Output																
Model	MPA200-A1		MPA200-B1		MPA200-C1		MPA200-D1		MPA200-F1		MPA200-G1		MPA200-H1		MPA200-I1	
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	
Current range	2-10A	1-8.3A	2-10A	0.6-6.25A	1-9A	0.6-4A	2-10A	0.5-3.2A	0.8-8.3A	0.5-2A	2.2-15A	2.2-15A	0.8-8.3A	0.8-8.3A	0.7-6.6A	0.7-6.6A
Rated current(A)	10A	8.3A	10A	6.25A	9A	4A	10A	3.2A	8.3A	2A	15A	15A	8.3A	8.3A	6.6A	6.6A
Rated power (W)	150W		200W		204W		200W		200W		150W		200W		200W	
Ripple & noise(max)note2	80mVp-p	120mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p	80mVp-p	160mVp-p	100mVp-p	160mVp-p	80mVp-p	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p
Voltage tolerance note3	±2%	±6%	±2%	±6%	±2%	±6%	±2%	±6%	±2%	±6%	±2%	±6%	±2%	±6%	±2%	±6%
Line regulation noite4	±1%															
Load regulation note5	±1.5%	±3%	±1.5%	±3%	±1.5%	±3%	±1.5%	±3%	±1.5%	±3%	±1.5%	±3%	±1.5%	±3%	±1.5%	±3%
Setup, rise time	1000ms 50ms/230VAC(at full load)															
Hold up time	20ms/230VAC(at full load)															
Status indicator	Green LED															
Protection																
Over load	110%-150% of the rated output power															
	Protection mode：shut down output, recover when the power restart.															
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：shut down output, recover when the power restart.															
Short circuit	Protection mode：shut down output, recover when the power restart.															
Over Temperature	Intelligent over temperature protection. Automatically recover when the temperature within normal range															
Three proof treatment	Application in the dusty and condensation 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 standard note 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:					

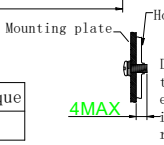
Environent		
Working temperature	- 25～+50℃（Refer to derating curve diagram）	
Storage temperature	- 40～+85℃	
Storage humidity	10-95％RH	
Vibration resistance	10-500Hz,2G 10Min/Circle 60min in each X,Y,Z direction	
Others		
MTBF	≥370K hrs,MIL-HDBK-217F(25℃)	
Installation	Screw in plate or install in TS35 rail with the accessory	
Protection class	IP20	
Weight	About 0.85Kg	
Dimension	220*115*50mm(Length* width* Height)	
Data	**Description**	**Model**
	MPA 150W 10.0A/5V 8.3A/12V	MPA200-A1
	MPA 200W 10.0A/5V 6.25A/24V	MPA200-B1
	MPA 204W 9A/12V 4A/24V	MPA200-C1
	MPA 200W 10A/5V 3.2A/48V	MPA200-D1
	MPA 200W 8.3A/12V 2A/48V	MPA200-F1
	MPA 150W 15A/-5V 15A/+5V	MPA200-G1
	MPA 200W 8.3/-12V 8.3A/+12V	MPA200-H1
	MPA 200W 6.6A/-15V 6.6A/+15V	MPA200-I1
Accessory	**Description**	**Model**
Rail Pin	TS35 Mounting accessory	MPS-F050B

Installation instruction



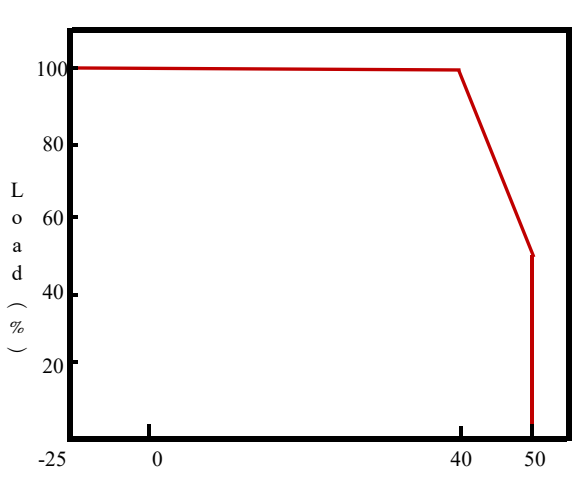
Installation Instructions

Terminal Spec	U Type of the width of the terminal	Wire installation specification	Max. Torque
95 Terminal	8mm MAX	22-12AWG	12N.m(MAX)

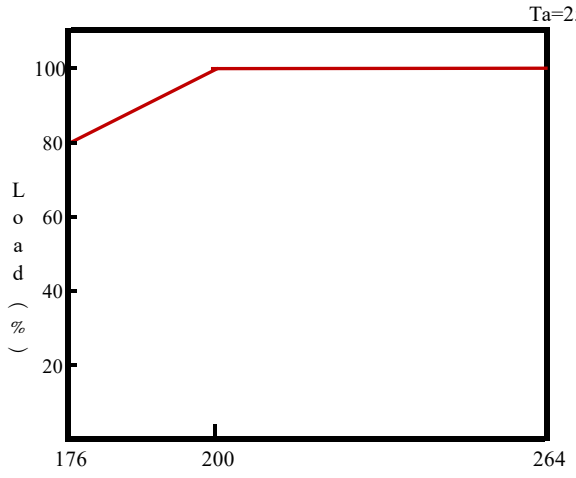


Due to the high voltage inside the power supply, please kindly ensure the safety when installing the screws in the red mounting hole, It is necessary to the ensure that the size in the drawing above in not more than 4mm, and the installation torque in not more than 1.2N.m

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 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 in areas below sea level of 2000M and non-tropical climates.