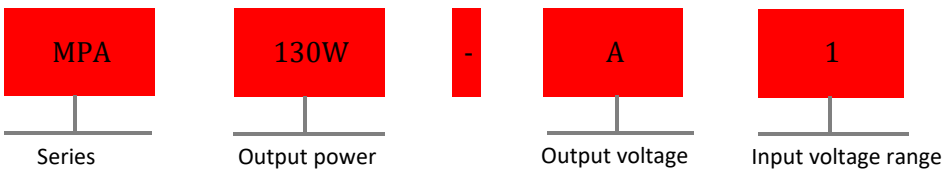
▲ Specifecation

Cooling by free air convection
Overload range: 110%-150%
100% full load burn-in test
Protection: Over Voltage/Over load/Short circuit
Power ON LED indicator
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



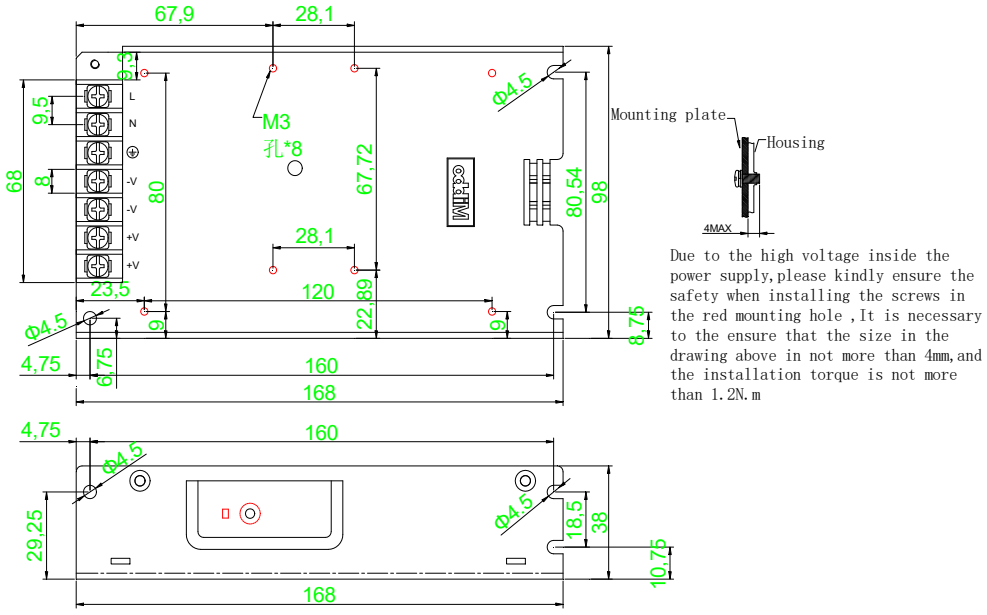
Mibbo

Specification

Input						
Voltage range	176-264VAC or 248-373VDC(Withstand 300VAC surge 5S）					
AC current	2A/230VAC					
Frequency range	47～63Hz					
Inrush current (max)	Cold start：40A/230VAC					
Output						
Model	MPA130-A1		MPA130-B1		MPA130-C1	
Chanel	CH1	CH2	CH1	CH2	CH1	CH2
DC voltage （V)	5V	12V	5V	24V	12V	24V
Efficiency	81%		85%		85%	
Voltage ADJ range	CH1:4.75～5.5V		CH1:4.75～5.5V		CH1:11.4-13.2V	
Rated current(A)	9	5	4.6	4.6	3.7A	3.7A
Current range	2-15A	0.5-8A	2-10A	0.4-5A	1-7A	0.4-5A
Rated power (W)	105W		133.4W		133.2W	
Ripple & noise(max)note2	80mVp-p	120mVp-p	80mVp-p	120mVp-p	120mVp-p	200mVp-p
Voltage tolerance note3	±5.0%	±7.0%	±5.0%	±7.0%	±2.0%	+8,-5%
Line regulation noite4	±1.0%	±2.0%	±1.0%	±2.0%	±0.5%	±1.0%
Load regulation note5	±3.0%	±4.0%	±3.0%	±4.0%	±1%	±5.0%
Setup, rise time	500ms 20ms/230VAC(at full load)					
Hold up time	25ms/230VAC(at full load)					
Status indicator	Green 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)	CH1:5.75～6.75V		CH1:5.75～6.75V		CH1:13.8～16.2V	
	Protection mode：Hiccup mode，recover automatically after fault condition is removed					
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	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 25cycles ,＜5％ residual voltage for 250 cycles:	

Environment		
Working temperature	- 25～+70℃（Refer to derating curve diagram）	
Storage temperature	- 40～+85℃	
Storage humidity	10～95％	
Vibration resistance	10-500Hz,2G 10Min/Circle 60min in each X,Y,Z direction	
Others		
MTBF	≥232.4K hrs,MIL-HDBK-217F(25℃)	
Installation	Screw in plate or install in TS35 rail with the accessory	
Protection class	IP20	
Weight	0.7Kg	
Dimension	168*98*38mm(Length* width* Height)	
Data	**Description**	**Model**
	MPA 105W 5V/12V 9A/5A	MPA130-A1
	MPA 133.4W 5V/24V 4.6A/4.6A	MPA130-B1
	MPA 133.2W 12V/24V 3.7A/3.7A	MPA130-C1
Accessory	**Description**	**Model**
Rail pin	TS35 mounting accessory	MPS-F050C

Installation instruction

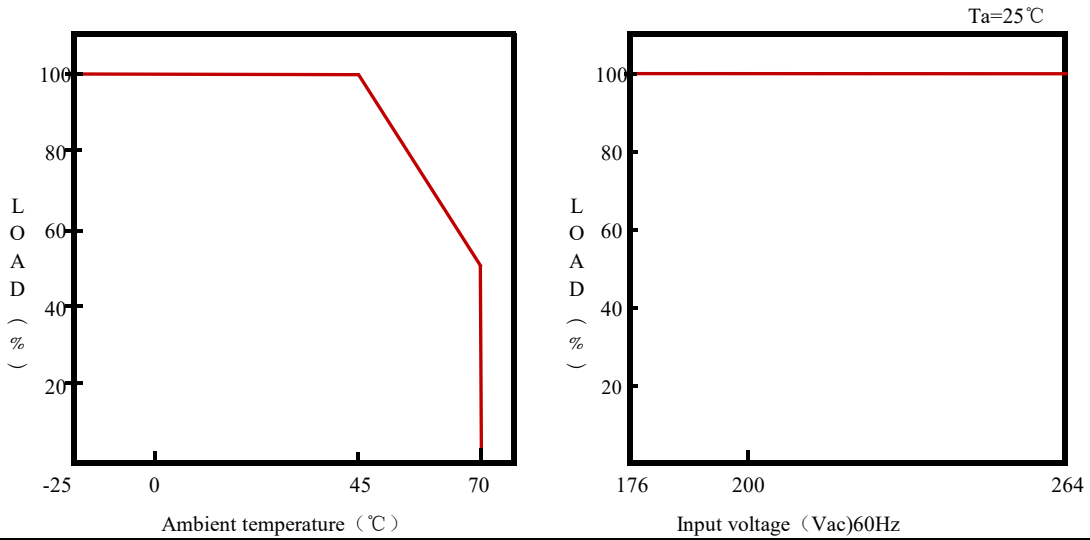


Due to the high voltage inside the power supply, please kindly ensure the safety when installing the screws in the red mounting hole , It is necessary to the ensure that the size in the drawing above in not more than 4mm, and the installation torque is not more than 1.2N.m

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



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 low to high of rated load
5.Load regulation measurement： CH1 from20％to 100％of rated load ， CH2 output at the 60% of the rated load
6.the output current is normal both CH1 & CH2,but the total power is not allowed to exceed the rated power
7.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.
8： the start time is measured in the state of cold start.Frequently ON-OFF will make the start time longer.