

# 120W Single Output Switching Power Supply MS-120 series

## ■ Features :

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty



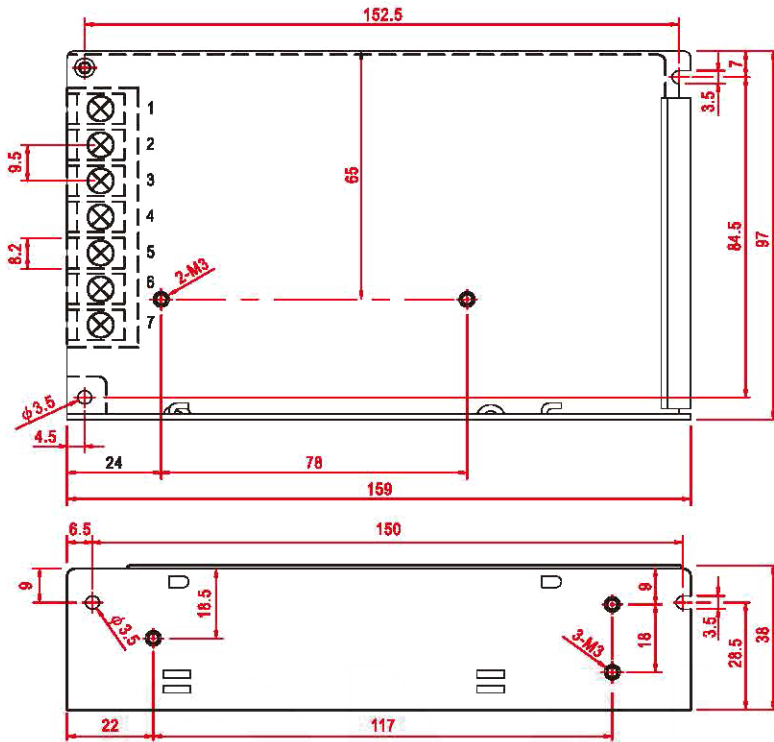
## SPECIFICATION

MODEL		MS-120-5	MS-120-12	MS-120-15	MS-120-24
OUTPUT	DC VOLTAGE	5V	12V	15V	24V
	RATED CURRENT	22A	10A	8.0A	5.0A
	CURRENT RANGE	0~22A	0~10A	0~8.0A	0~5.0A
	RATED POWER	110W	120W	120W	120W
	RIPPLE & NOISE(max.) <sup>Note.2</sup>	80mVp-p	120mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	4.75~5.5V	10.8~13.2A	13.5~16.5A	21.6~26.4V
	VOLTAGE TOLERANCE <sup>Note.3</sup>	±2.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP,RISE,TIME	1000ms, 30ms/230VAC 100ms,30ms/115VAC (at full load)			
HOLD UP TIME	100ms/230VAC 21ms/115VAC (at full load)				
INPUT	VOLTAGE RANGE	85~264VAC or 120~370VDC			
	FREQUENCY RANGE	47~63Hz			
	EFFICIENCY(Typ.)	80%	82%	84%	86%
	AC CURRENT(Typ.)	2.4A/115VAC 1.2A/230VAC			
PROTECTION	INRUSH CURRENT(Typ.)	COLD START: 15A/115VAC 30A/230VAC			
	OVER LOAD	Above 110%~150%rated output power Protection type: Hiccup mode,recovers automatically after fault condition is removed			
	OVER VOLTGE	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V
ENVIRONMENT	WORKING TEMP.	-10~+60°C (Refer to "Derating Curve" )			
	WORKING HUMIDITY	20~90%RH,non-condensing			
	STORAGE TEMP.,HUMIDITY	~40~+85°C,10~95%RH			
	TEMP.COEFFICIENT	±0.03%/°C(0~50°C)			
	VIBRATION	10~500Hz, 2G 10min/1cycle, period for 60min.X、Y、Zaxes			
SAFETY & EMC	SAFETY STANDARDS	Approved UL1012, TUV EN60950-1			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC			
	ISOLATION RESISTANCE	IP-O/P:100M Ohms / 500VDC/ 25°C / 70% RH			
	EMC EMISSION	Approved EN55022(CISPR22)Class B,EN61000-3-2,-3			
	EMC IMMUNITY	Approved E61000-4-2,3,4,5,EN55024,light industry level,criteria A			
OTHERS	MTBF	≥441.5K hrs. MIL-HDBK-217F(25°C)			
	DIMENSION	159*97*38mm(W*H*D)			
	PACKING	0.42Kg; 40pcs/18Kg/1.02CUFT			
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 a12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance:includes set up tolerance,line regulation and load regulation.				

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## Mechanical Specification

Case No. Wx901 A Unit:mm

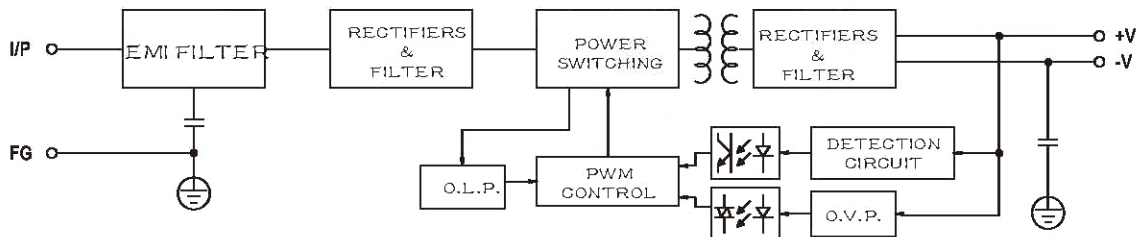


Terminal Pin No. Assignment

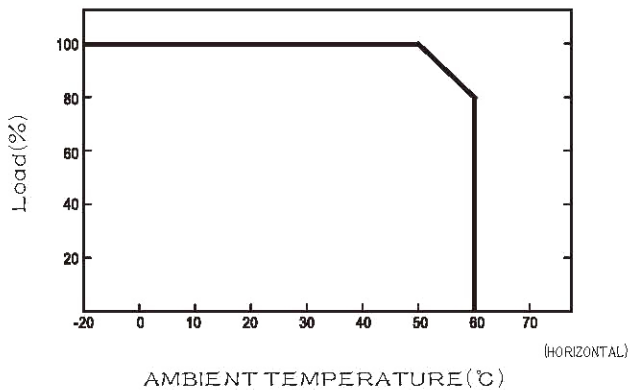
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	-V
2	AC/N	6,7	+V
3	FG		

## Block Diagram

Fosc: 66KHZ



## Derating Curve



## Static Characteristics

