

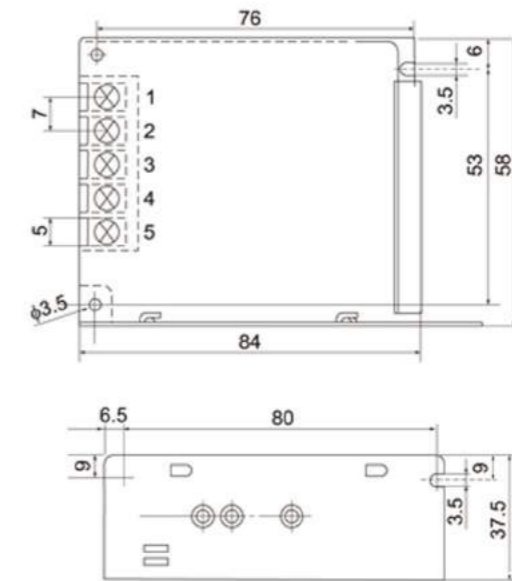


**SPECIFICATION**

MODEL	MS-15-5	MS-15-12	MS-15-24	
OUTPUT	DC VOLTAGE	5V	12V	24V
	RATED CURRENT	3A	1A	0.65A
	CURRENT RANGE	0 ~ 3A	0 ~ 1A	0-0.65A
	RATED POWER	15W	15W	15W
	RIPPLE & NOISE (max.) Note.2	50mVp-p	100mVp-p	100mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	21.6 ~ 26.4V
	VOLTAGE TOLERANCE Note.3	±2.0%	± 1.0%	± 1.0%
	LINE REGULATION	±0.5%	± 0.5%	± 0.5%
	LOAD REGULATION	±1.0%	± 0.5%	± 0.5%
	SETUP, RISE TIME	300ms, 50ms/230VAC 800ms, 50ms/115VAC at full load		
HOLD UP TIME (Typ.)	90ms/230VAC 12ms/115VAC at full load			
INPUT	VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY(Typ.)	72%/115VAC	76%/115VAC	80%/115VAC
	AC CURRENT (Typ.)	0.6A/115VAC 0.35A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 13A/115VAC 25A/230VAC		
LEAKAGE CURRENT	<0.75mA / 240VAC			
PROTECTION	OVERLOAD	105 ~ 150% rated output power Protection type :Hiccup mode, recovers automatically after fault condition is removed.		
	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")		
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL1012, TUV EN60950-1 approved		
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC 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°C / 70% RH		
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3		
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5, EN55024, light industry level, criteria A		
	MTBF	330.8K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	84*58*38mm (L*W*H)		
NOTE	PACKING	0.17Kg; 80pcs/13Kg/0.9CUFT		
	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.			

**Mechanical Specification**

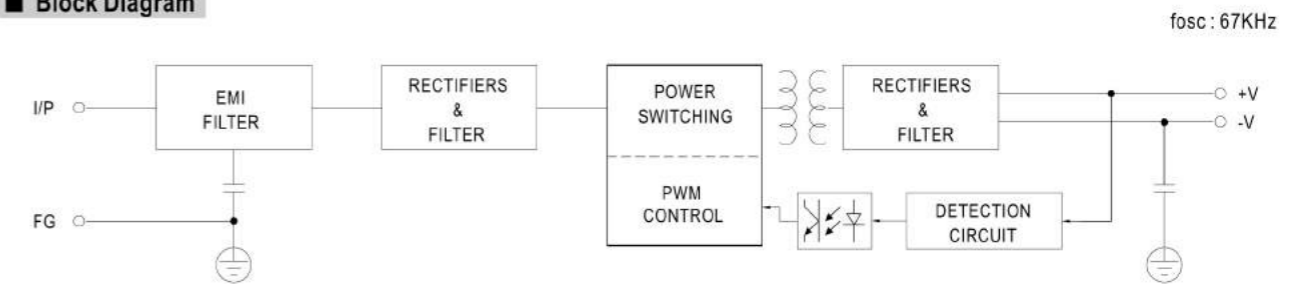
Case No. 931A Unit:mm



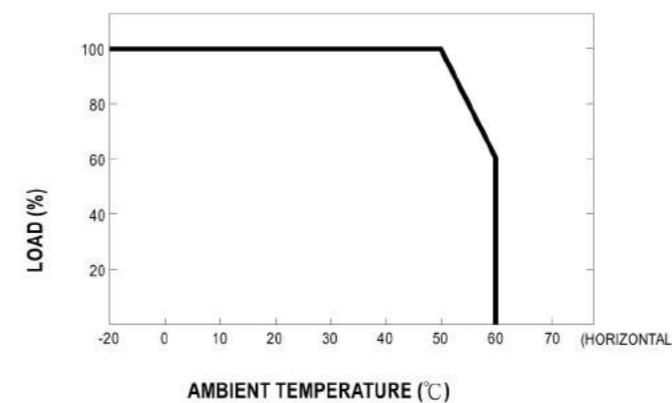
**Terminal Pin No. Assignment**

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG $\pm$		

**Block Diagram**



**Derating Curve**



**Output Derating VS Input Voltage**

