

# TOTAL POWER INT'L

750W Single Output Power Supply

**SP-750 series**



■ Features :

- Universal AC input/Full range
- AC input active surge current limiting
- Built-in active PFC function, PF>0.95
- Protections: Short circuit, overload, over voltage, over temperature
- Forced air cooling by built-in DC ball bearing fan
- High power density 5.48/inch<sup>3</sup>
- Built-in constant current limiting circuit
- With power good and fail signal output
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty



**SPECIFICATION**

MODEL	SP-750-5	SP-750-12	SP-750-15	SP-750-24	SP-750-27	SP-750-48	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	27V	48V
	RATED CURRENT	120A	62.5A	50A	31.3A	27.8A	15.7A
	CURRENT RANGE	0 ~ 120A	0 ~ 62.5A	0 ~ 50A	0 ~ 31.3A	0 ~ 27.8A	0 ~ 15.7A
	RATED POWER	600W	750W	750W	751.2W	750.6W	753.6W
	RIPPLE & NOISE (max.) Note.2	120mVp-p	120mVp-p	120mVp-p	120mVp-p	120mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10 ~ 13.5V	13.5 ~ 16.5V	22 ~ 26.4V	24 ~ 30V	43 ~ 56V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION	±2.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
SETUP, RISE, HOLD TIME	1000ms, 50ms, 16ms/230VAC      1000ms, 50ms, 16ms/115VAC at full load						
INPUT	VOLTAGE RANGE	90 ~ 264VAC    127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR	0.95/230VAC    0.96/115VAC at full load					
	EFFICIENCY (Typ.)	81%	86%	87%	89%	89%	90%
	AC CURRENT	11A/115VAC	5.3A/230VAC				
	INRUSH CURRENT (max.)	30A/115VAC	50A/230VAC				
	LEAKAGE CURRENT	<2.0mA / 240VAC					
PROTECTION	OVER LOAD	105~125% rated output power Protection type : Constant current limiting, unit will Hiccup after 3 sec.					
	OVER VOLTAGE	5.75 ~ 6.3V	13.8 ~ 16.2V	18 ~ 21V	27.6 ~ 32.4V	31 ~ 36.5V	57.6 ~ 67.2V
	OVER TEMPERATURE	85°C±5°C (TSW1 ) Detect on heatsink of power transistor    85°C±5°C (TSW2 ) Detect on heatsink of power diode Protection type : Shut down o/p voltage, recovers automatically after temperature goes down					
FUNCTION	POWER GOOD/FAIL	50ms/1ms					
	REMOTE CONTROL	RC+/RC- short power on, open power off					
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)					
	WORKING HUMIDITY	20~90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC    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					
	EMI CONDUCTION & RADIATION	Compliance to EN55011 (CISPR11), EN55022 (CISPR22) Class B					
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3					
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2, EN61204-3 Heavy industry level, criteria A					
	MTBF	769.3K hrs min.    MIL-HDBK-217F (25°C)					
	DIMENSION	278*127*63.5mm (L*W*H)					
NOTE	PACKING	2.9Kg; 6pcs / 18.4Kg / 0.98CUFT					
		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. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.					

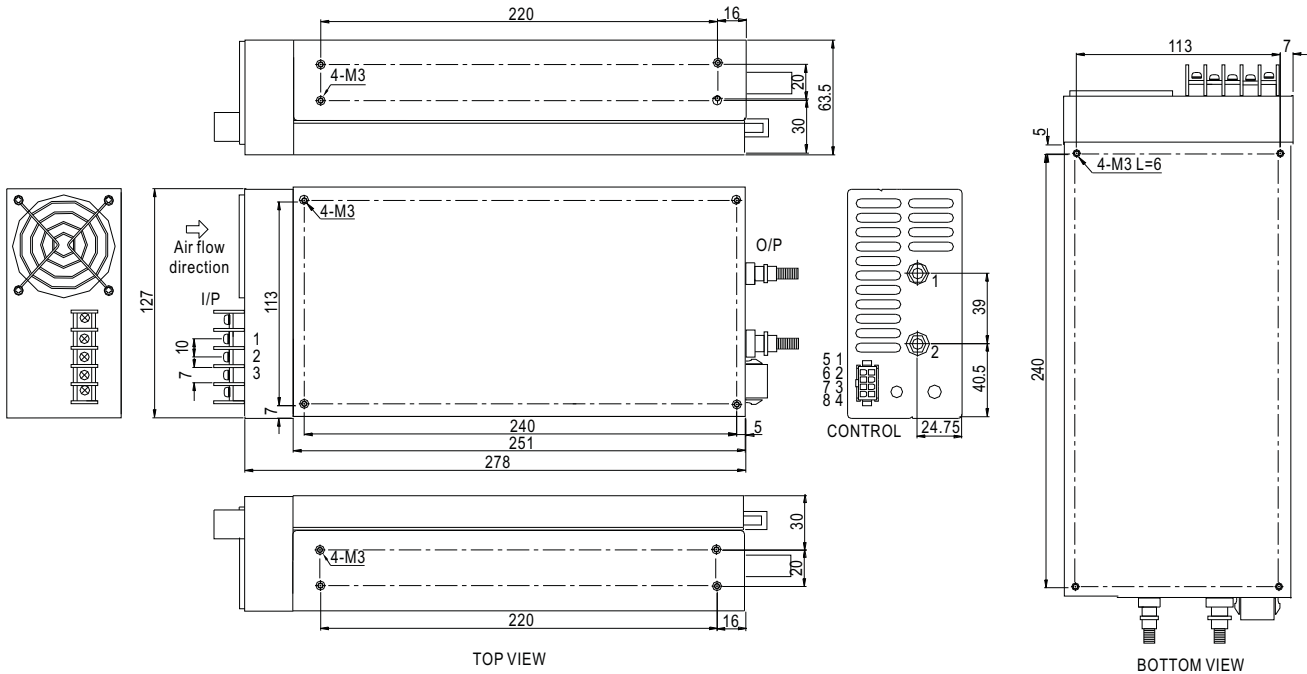
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## Mechanical Specification

Case No.919A Unit:mm



AC Input Terminal Pin. No. Assignment

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG $\perp$

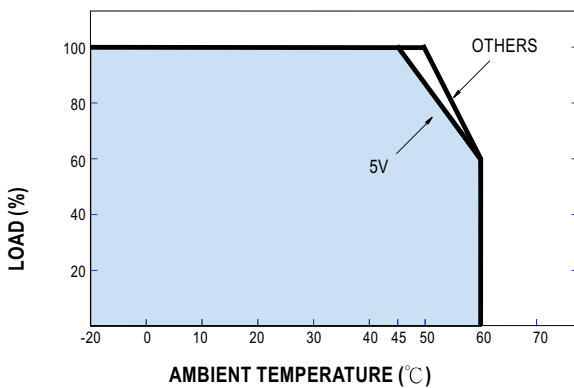
DC Output Terminal Pin. No Assignment

Pin No.	Assignment
1	DC OUTPUT +V
2	DC OUTPUT -V

Control Pin. No Assignment : MOLEX 5559-NP uses 5558 male crimp terminal

Pin No.	Assignment	Pin No.	Assignment	Mating connector	Terminal
1	NC	5	NC	MOLEX 5557-NR	MOLEX 5556 Female crimp Terminal receptacle
2	-S	6	PF(Power fail signal)		
3	G	7	+S		
4	RC-	8	RC+		

## Derating Curve



## Static Characteristics

