



Features:

- Universal AC input/Full range
- AC input active surge current limiting
- Built-in active PFC function, PF>0.96
- Protections:Short circuit, overload, over voltage, over temperature
- Forced air cooling by built-in DC ball bearing fan
- High power density 5.48/inch³
- 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





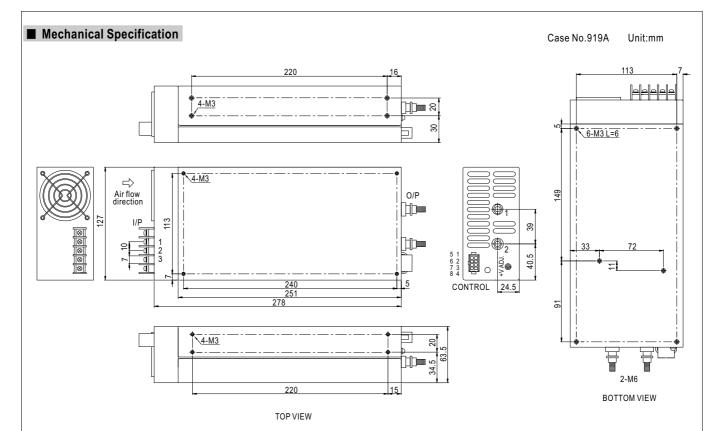




SPECIFICATION

MODEL		SP-750-5	SP-750-12	SP-750-15	SP-750-24	SP-750-27	SP-750-48		
	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		
OUTPUT	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		±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 TIME	600ms, 50ms/230VA				1 = 0.0 70	20.070		
	HOLD TIME (Typ.)	600ms, 50ms/230VAC 600ms, 50ms/115VAC at full load 19ms/230VAC 19ms/115VAC at full load							
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz PF>0.96/230VAC PF>0.99/115VAC at full load							
INDUT	POWER FACTOR (Typ.)	PF>0.96/230VAC			000/	000/	000/		
INPUT	EFFICIENCY (Typ.)	81%	86%	87%	89%	89%	90%		
	AC CURRENT (Typ.)	8.8A/115VAC 4.2A/230VAC							
	INRUSH CURRENT (Typ.)	27A/115VAC 45A/230VAC							
	LEAKAGE CURRENT	<2.0mA/240VAC							
	OVERIOAN	105 ~ 125% rated output power							
	OVER LOAD Protection type : Constant current limiting, unit will Hiccup after 3 sec.								
PROTECTION	OVED VOLTACE	5.75 ~ 6.3V	13.8 ~ 16.2V	18 ~ 21V	27.6 ~ 32.4V	31 ~ 36.5V	57.6 ~ 67.2V		
PROTECTION	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover							
	OVED TEMPES :=::5	85°C±5°C (TSW1) Detect on heatsink of power transistor 85°C±5°C (TSW2) Detect on heatsink of power diode							
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down							
FUNCTION	POWER GOOD/FAIL	50ms/1ms							
FUNCTION	REMOTE CONTROL Note.5								
	WORKING TEMP.	-20 ~ +60°C (Refer to	o output load deratin	g curve)					
	WORKING HUMIDITY	20~90% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	·							
	TEMP. COEFFICIENT	±0.05%/°C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL60950-1, TUV EN		g., ,,					
	WITHSTAND VOLTAGE	· ·	• • • • • • • • • • • • • • • • • • • •	P-FG:0.5KVAC					
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:3KVAC							
	EMI CONDUCTION & RADIATION	Compliance to EN55			ess B				
EMC (Note 4)	HARMONIC CURRENT	Compliance to EN61	, ,,	10022 (0101 1122) 010	.00 5				
(EMS IMMUNITY	I	, , ,	ENIV50204 ENISS024	, EN61000-6-2, EN612	04-3 Heavy industry lo	val critaria ^		
	MTBF	·			, LINU 1000-0-2, EINO 12	OT-3 HEAVY HUUSHY IE	voi, Gillona A		
OTHERS		769.3K hrs min. N		J)					
OTHERS	DIMENSION	278*127*63.5mm (L*							
	PACKING	2.9Kg; 6pcs / 18.4K			LOF°O (
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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. The power supply unit will have no output if the shorting connector is not assembled between RC+ & RC 								
						File N	ame:SP-750-SPEC 200		





AC Input Terminal Pin. No. Assignment

	0
Pin No.	Assignment
1	AC/L
2	AC/N
3	FG ±

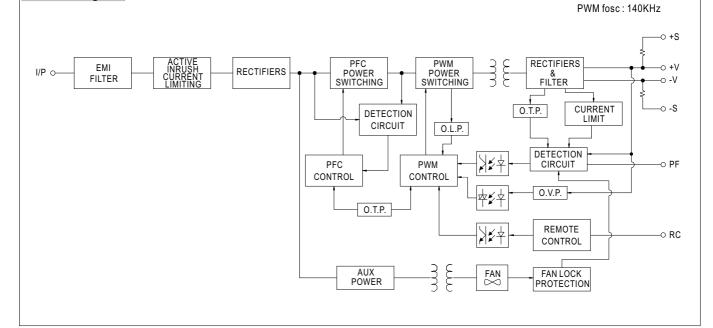
DC Output Terminal Pin. No Assignment

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

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

Control in No Assignment . MOLEX 3333-IVI daes 3330 male crimp terminar								
Pin No.	Assignment	Pin No.	Assignment	Mating connector	Terminal			
1	NC	5	NC		MOLEX 5556			
2	-S	6	PF(Power fail signal)	MOLEX 5557-NR	Female crimp Terminal receptacle			
3	G	7	+S	MOLLX OOO7 NIK				
4	RC-	8	RC+		receptacie			

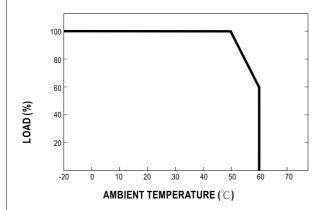
■ Block Diagram



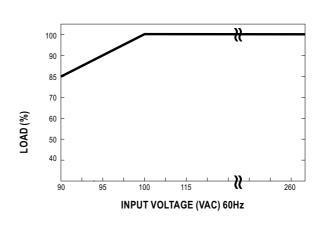
PFC fosc: 100KHz



■ Derating Curve



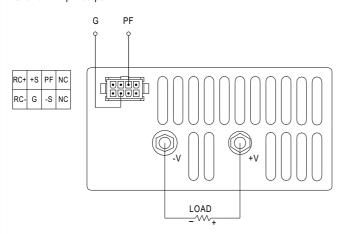
■ Static Characteristics



■ Control Terminal Instruction Manual

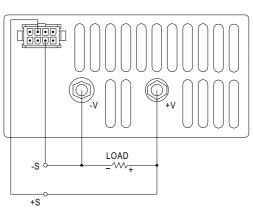
Power Fail Signal

PF Signal is the voltage difference between "G" and "PF" pin output



Remote Sensing





Remote Control

Power ON: RC+/RC- Short Power OFF: RC+/RC- open

