TOTAL POWER INT'L

250W Single Output Switching Power Supply

S-250 series



■ Features :

- AC input range selected by switch
- Protections:Short circuit/Over load/Over voltage
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- Fixed switching frequency at 60KHz
- Low cost
- High reliability
- 2 years warranty

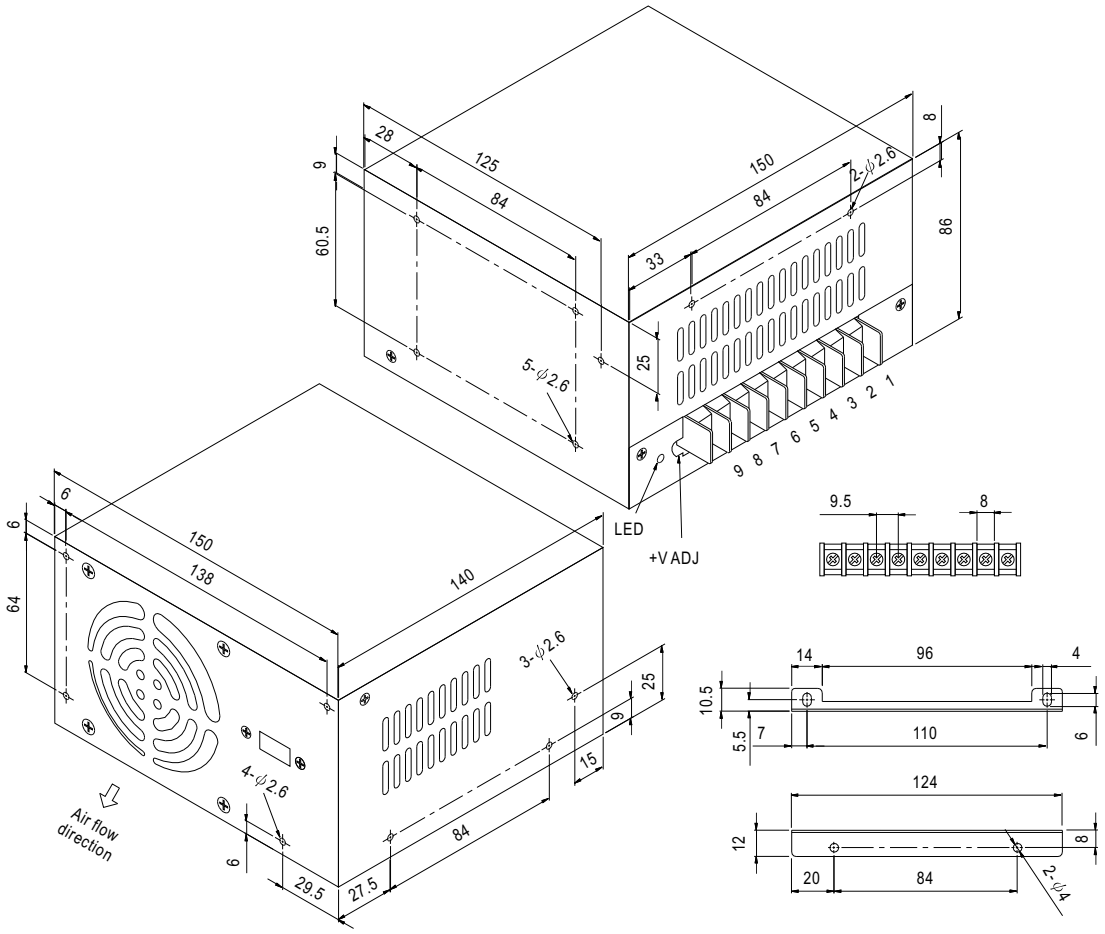
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SPECIFICATION

MODEL		S-250-5	S-250-12	S-250-15	S-250-24	S-250-27	S-250-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	27V	48V
	RATED CURRENT	40A	18A	15A	10A	9A	5.2A
	CURRENT RANGE	0 ~ 40A	0 ~ 18A	0 ~ 15A	0 ~ 10A	0 ~ 9A	0 ~ 5.2A
	RATED POWER	200W	216W	225W	240W	243W	249.6W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~5.5V	10.8 ~13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	24.3 ~ 29.7V	43.2 ~ 52.8V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE, HOLD TIME	800ms, 50ms, 16ms at full load					
INPUT	VOLTAGE RANGE	90 ~ 132VAC / 176 ~ 264VAC Selected by switch 248~370VDC					
	FREQUENCY RANGE	47~ 63Hz					
	EFFICIENCY (Typ.)	74%	79%	80%	81.5%	82%	82%
	AC CURRENT	6A/115VAC 3.5A/230VAC					
	INRUSH CURRENT (max.)	COLD START 50A/230VAC					
	LEAKAGE CURRENT	<2mA / 240VAC					
PROTECTION	OVER LOAD	105 ~ 135% rated output power					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	31.05 ~ 36.45V	55.2 ~ 64.8V
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
ENVIRONMENT	WORKING TEMP.	-10 ~ +60℃ (Refer to output load derating curve)					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS	UL60950 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					
OTHERS	MTBF	238.9K hrs min. MIL-HDBK-217F (25℃)					
	DIMENSION	150*140*86mm (L*W*H)					
	PACKING	1.3Kg; 8pcs/10.4Kg/0.97CUFT					
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 terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation.						

■ Mechanical Specification

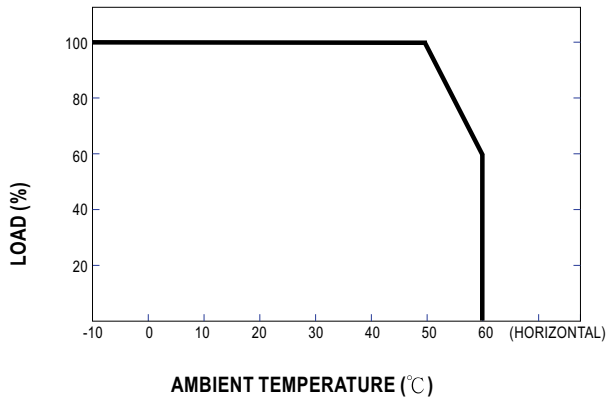
Case No. 907 Unit:mm



Terminal Pin. No Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5,6	DC OUTPUT -V
2	AC/N	7,8,9	DC OUTPUT +V
3	FG ⏚		

■ Derating Curve



■ Static Characteristics

