TOTAL POWER INT'L

250W Quad Output Power Supply

Q-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 75KHz
- Low cost
- High reliability
- 2 years warranty

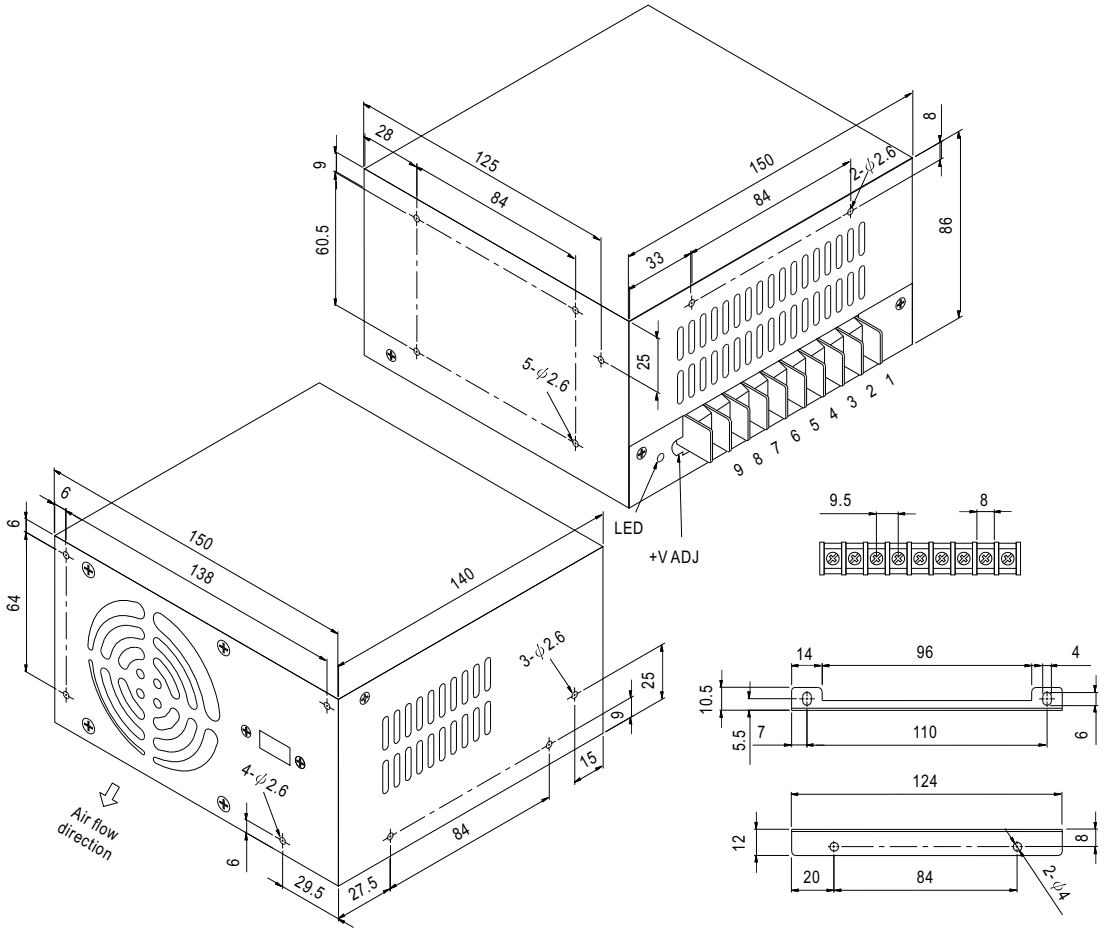
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SPECIFICATION

MODEL		Q-250B				Q-250C			
OUTPUT	DC VOLTAGE	+5V	+12V	-12V	-5V	+5V	+15V	-15V	-5V
	RATED CURRENT	20A	7A	1A	1A	20A	5A	1A	1A
	CURRENT RANGE	2 ~ 20A	0.5 ~ 7A	0.5 ~ 1A	0 ~ 1A	2 ~ 20A	0.5 ~ 5A	0.5 ~ 1A	0 ~ 1A
	RATED POWER	201W				195W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	50mVp-p	80mVp-p	150mVp-p	150mVp-p	50mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V				4.75 ~ 5.5V			
	VOLTAGE TOLERANCE Note.3	±2.0%	+8, -10%	±10%	±6.0%	±2.0%	±10%	±10%	±6.0%
	LINE REGULATION	±0.5%	±1.0%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±1.0%	±6.0%	±8.0%	±2.0%	±1.0%	±8.0%	±10%	±2.0%
	SETUP, RISE, HOLD TIME	800ms, 50ms, 20ms at full load							
INPUT	VOLTAGE RANGE	90 ~ 132VAC / 176 ~ 264VAC Selected by switch 248 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	73%				74%			
	AC CURRENT	6A/115VAC 3.5A/230VAC							
	INRUSH CURRENT (max.)	COLD START 50A							
	LEAKAGE CURRENT	<2mA / 240VAC							
PROTECTION	OVER LOAD	105 ~ 150% rated output power							
		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	+5V: 5.75 ~ 6.75V							
		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	219.5K hrs min. MIL-HDBK-217F (25℃)							
	DIMENSION	150*140*86mm (L*W*H)							
	PACKING	1.5Kg; 8pcs/12Kg/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

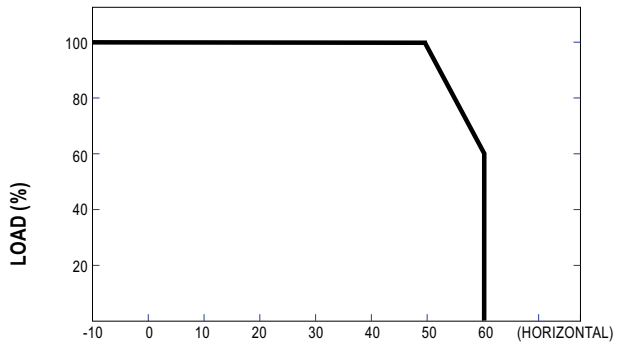
Case No. 907 Unit:mm



Terminal Pin. No Assignment

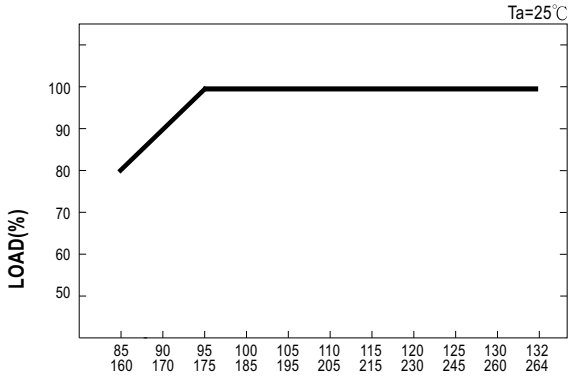
Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V4	7	DC OUTPUT COM
2	AC/N	5	DC OUTPUT V3	8	DC OUTPUT COM
3	FG ⏚	6	DC OUTPUT +V2	9	DC OUTPUT +V1

■ Derating Curve



AMBIENT TEMPERATURE (℃)

■ Static Characteristics (D,F)



INPUT VOLTAGE (V) 60Hz