



■ Features :

- AC input range selected by switch
- Protections: Short circuit / Overload / 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



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 UP 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	OVERLOAD	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°C (Refer to output load derating curve)							
	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, 60min. each along X, Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS	UL60950-1 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							
OTHERS	MTBF	219.5K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	150*140*86mm (L*W*H)							
	PACKING	1.4Kg; 8pcs/11.5Kg/0.97CUFT							
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p>								



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SPECIFICATION

MODEL		Q-250D				Q-250F			
OUTPUT	DC VOLTAGE	+5V	+12V	+24V	-12V	+5V	+15V	+24V	-15V
	RATED CURRENT	10A	5A	5A	1A	10A	4A	5A	1A
	CURRENT RANGE	2 ~ 15A	0.5 ~ 6A	0.5 ~ 5A	0 ~ 1A	2 ~ 15A	0.5 ~ 5A	0.5 ~ 5A	0 ~ 1A
	RATED POWER	242W				245W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	240mVp-p	120mVp-p	80mVp-p	150mVp-p	240mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V				4.75 ~ 5.5V			
	VOLTAGE TOLERANCE Note.3	2.0%	+6, -10%	8.0%	6.0%	2.0%	+6, -10%	8.0%	6.0%
	LINE REGULATION	0.5%	1.0%	1.0%	1.0%	0.5%	1.0%	1.0%	1.0%
	LOAD REGULATION	1.0%	5.0%	6.0%	2.0%	1.0%	4.0%	6.0%	2.0%
SETUP, RISE, HOLD UP 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.)	78%				78%			
	AC CURRENT	6A/115VAC		3.5A/230VAC					
	INRUSH CURRENT (max.)	COLD START 50A							
	LEAKAGE CURRENT	<2mA / 240VAC							
PROTECTION	OVERLOAD	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°C (Refer to output load derating curve)							
	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, 60min. each along X, Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS	UL60950-1 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							
OTHERS	MTBF	219.5K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	150*140*86mm (L*W*H)							
	PACKING	1.4Kg; 8pcs/11.5Kg/0.97CUFT							
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p>								

