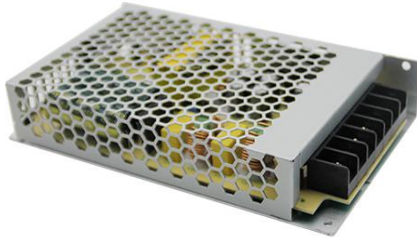




125W Quad Output Switching Power Supply

ITQ-125 Series



◆ Features:

- * Universal AC input / Full range
- * Protections: Short circuit / Overload / Over voltage
- * Cooling by free air convection
- * LED indicator for power on
- * 100% full load burn-in test
- * All using 105°C long life electrolytic capacitors
- * Withstand 300VAC surge input for 5 seconds
- * High operating temperature up to 70°C
- * Withstand 5G vibration test
- * High efficiency, long life and high reliability
- * 2 years warranty

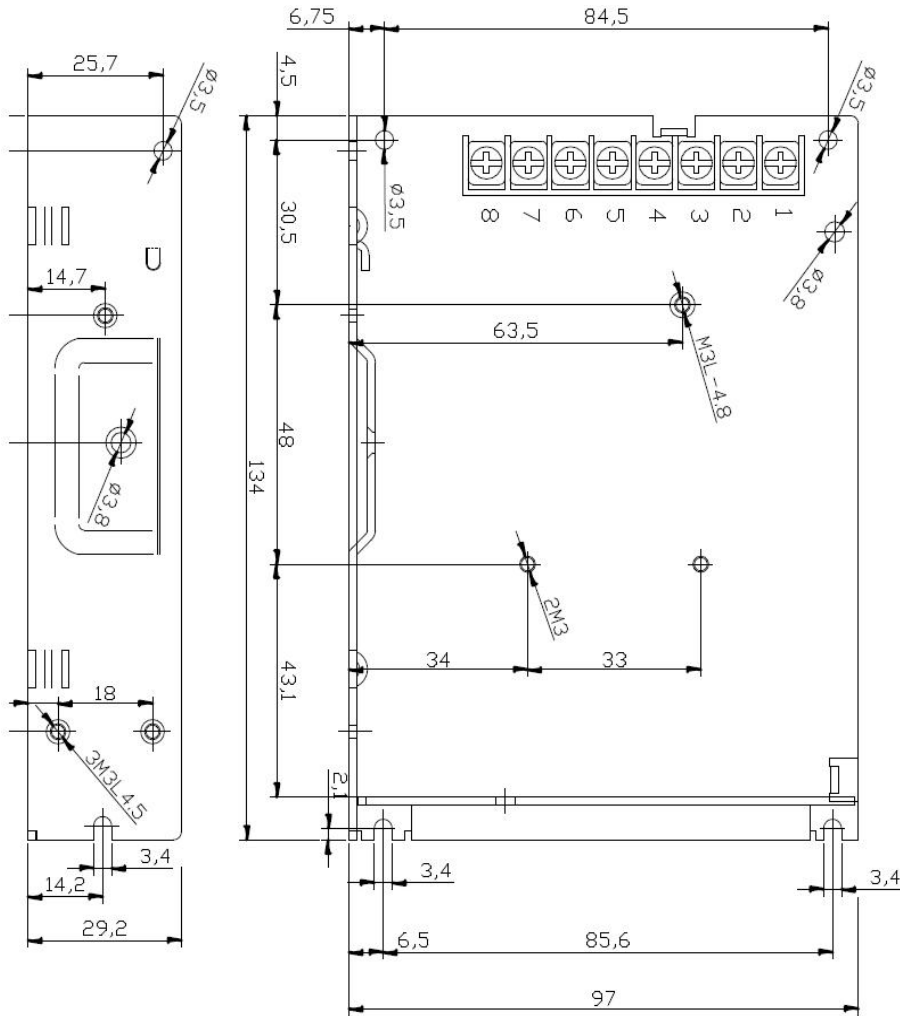
MODEL		ITQ-125 II				ITQ-125 III				ITQ-125 IV			
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
	DC VOLTAGE	5V	12V	-5V	-12V	5V	15V	-5V	-15V	5V	12V	24V	-12V
	RATED CURRENT	11A	4.5A	1A	0.5A	10A	4A	1A	0.5A	8A	2.5A	2A	0.5A
	CURRENT RANGE	2~12A	0.5~4.5A	0.1~1A	0~1A	2~12A	0.5~4A	0.1~1A	0~1A	2~12A	0.5~4A	0.1~2.5A	0~1A
	RATED POWER	120W				122.5W				124W			
	RIPPLE&NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	80mVp-p	80mVp-p	120mVp-p	80mVp-p	80mVp-p	80mVp-p	120mVp-p	150mVp-p	80mVp-p
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V				CH1: 4.75 ~ 5.5V				CH1: 4.75 ~ 5.5V			
	VOLTAGE TOLERANCE Note.3	±2.0%	+8,-3%	+6,-10%	±5.0%	±2.0%	+8,-3%	+6,-1%	±5.0%	±2.0%	+8,-3%	±8.0%	±5.0%
	LINE REGULATION Note.4	±0.5%	±1.0%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION Note.5	±1.0%	±3.0%	±6.0%	±2.0%	±1.0%	±3.0%	±6.0%	±2.0%	±1.0%	±3.0%	±5.0%	±2.0%
SETUP, RISE TIME	500ms, 20ms/230VAC				1200ms, 30ms/115VAC at full load								
HOLD UP TIME (Typ.)	25ms/230VAC				30ms/115VAC at full load								
INPUT	VOLTAGE RANGE	88 ~ 264VAC 125 ~ -373VDC (Withstand 300VAC surge for 5sec. Without damage)											
	FREQUENCY RANGE	47 ~ 63HZ											
	EFFICIENCY (Typ.)	79%				80%				82%			
	AC CURRENT (Typ.)	3A/115VAC 2A/230VAC											
	INRUSH CURRENT (Typ.)	COLD START 36A/230VAC											
LEAKAGE CURRENT	<2mA / 240VAC												
PROTECTION	OVERLOAD	110 ~ 150% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed											
	OVER VOLTAGE	CH1: 5.75 ~ 6.75V Protection Type: Hiccup mode, recovers automatically after fault condition is removed											
ENVIRONMENT	WORKING TEMP.	-25 ~ +70 (Refer to "Derating Curve")											
	WORKING HUMIDITY	20% ~ 90%, RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C) on CH1 output											
	VIBRATION	10-500HZ, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes											
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL60950-1, CCC GB4943 approved											
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG0.5KVAC											
	ISOLATION RESISTANCE	I/P-O/P,I/P-FG:100MOhms/ 500VDC / 25°C/ 70%RH											
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2, EAC TP TC 020											
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN5502, EN61000-6-2, heavy industry level, criteria A, EAC TP TC 020											
OTHERS	MTBF	203.1Khrs min. MIL-HDBK-217F (25°C)											
	DIMENSION	134*97*29.2mm (L*W*H)											
	PACKING	0.7Kg; 20pcs/14Kg/0.8CUFT											

NOTE

1. All parameter 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. Line regulation is measured from low line to high line at rated load.
5. Load regulation is measured from 0% to 100% rated load.
6. The power supply is considered a component which will be installed to a final equipment. All the EMC tests are been executed by mounting the unit on a 230mm*230mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000mm (6500ft)



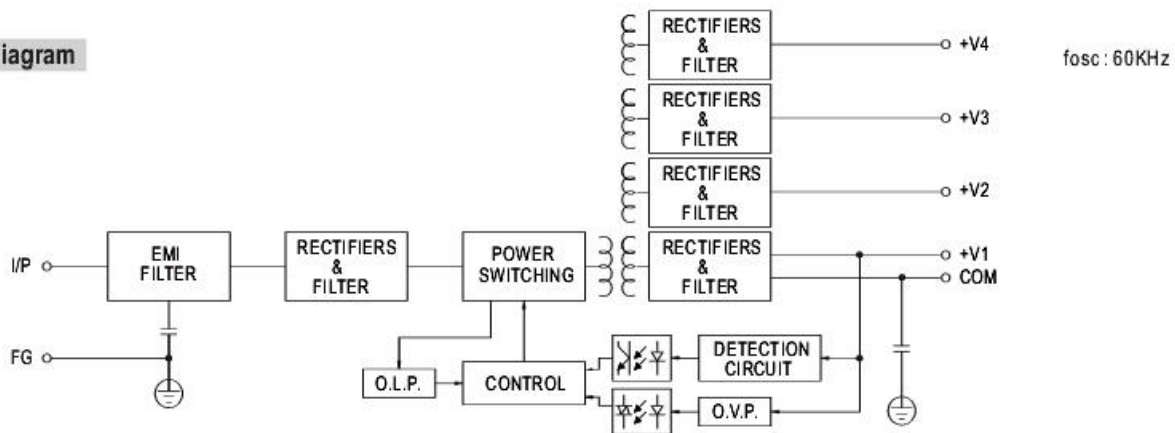
Dimension



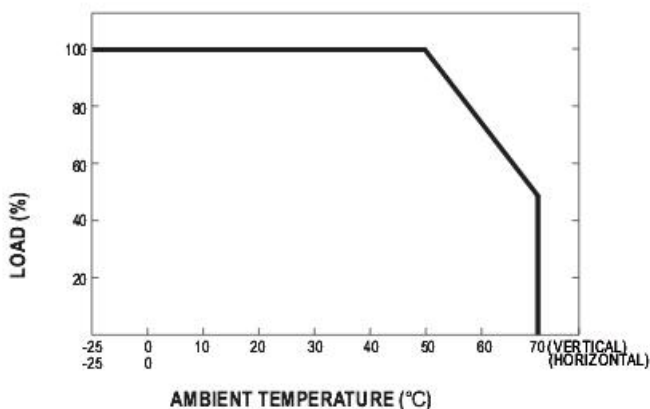
Terminal Pin No. Assignment

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

Block Diagram



Derating Curve



Static Characteristics

