



## Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.94
- Protections:Short circuit/Over load/Over voltage
- Forced air cooling by built-in DC fan
- Fixed switching frequency at 100KHz
- 3 years warranty

## **SPECIFICATION**



MODEL		TP-150A			TP-150B			TP-150C			TP-150D			
	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
OUTPUT	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	12V	
	RATED CURRENT	15A	6A	0.6A	15A	5.5A	0.6A	15A	4.5A	0.6A	15A	3A	0.6A	
	CURRENT RANGE	2 ~ 20A	0.4 ~ 7A	0 ~ 1A	2 ~ 20A	0.4 ~ 7A	0 ~ 1A	2 ~ 20A	0.4 ~ 6A	0 ~ 1A	2 ~ 20A	0.4 ~ 4A	0 ~ 1A	
	RATED POWER	150W			148.2W			151.5W			154.2W			
	RIPPLE & NOISE (max.) Note.2	100mVp-p 120mVp-p 100mVp-p			100mVp-p 120mVp-p 100mVp-p			100mVp-p 150mVp-p 100mVp-p			100mVp-p 150mVp-p 100mVp-p			
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V												
	VOLTAGE TOLERANCE Note.3	±3.0%	±8.0%	±6.0%	±3.0%	±8.0%	±6.0%	±3.0%	+10,-6%	±6.0%	±3.0%	±8.0%	±6.0%	
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±3.0%	±6.0%	±4.0%	±3.0%	±6.0%	±4.0%	±3.0%	±6.0%	±4.0%	±3.0%	±6.0%	±4.0%	
	SETUP, RISE TIME	800ms, 60	800ms, 60ms/230VAC 800ms, 60ms/115VAC at full load											
	HOLD TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load												
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.94/230VAC												
	EFFICIENCY (Typ.)	75%												
	AC CURRENT (Typ.)	2.5A/115\	2.5A/115VAC 1.2A/230VAC											
	INRUSH CURRENT (Typ.)	COLD ST	COLD START ≦40A/230V											
	LEAKAGE CURRENT	<3.5mA/240VAC												
PROTECTION		105 ~ 150% rated output power												
	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed												
	OVER VOLTAGE	5.75 ~ 6.75V on +5V												
	OVER VOLIAGE	Protection type: Shut down o/p voltage, re-power on to recover												
	OVER TEMPERATURE(OPTION)	95℃±5℃ (TSW1)												
		Protection type: Snut down o/p voltage, recovers automatically after temperature goes down												
ENVIRONMENT	WORKING TEMP.	-10 ~ +60 $^{\circ}$ 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 STANDARDS	UL60950-1, TUV EN60950-1 Approved												
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1min.												
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC												
EMC (Note 4)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B												
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3												
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A												
OTHERS	MTBF	161.6K hrs min. MIL-HDBK-217F (25°C)												
	DIMENSION		199*99*50mm (L*W*H) 0.9Kq; 20pcs/19Kq/1.28CUFT											
	PACKING	, o,			2001/40			°0 -1 1						
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25<sup>o</sup>C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>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.</li> </ol>													



