

TP-150 Series

150W Triple Output Enclosed Power Supply with PFC



Case No: 8018JV
199 x 99 x 50 mm

Features

- Universal AC input/ Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit/Overload/Over voltage
- Forced air cooling by built-in DC fan
- Fixed switching frequency at 100KHz



Specification

INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 370VDC					
	Frequency	47 ----- 63 Hz					
	Current	<2.5A@115VAC; 1.25A/230VAC input, full load					
	Inrush Current	<40A@230VAC input, Cold start at 25°C ambient					
	Leakage Current	<3.5mA@240VAC input					
OUTPUT	MODEL No.	TP-150A			TP-150B		
	Channel No.	CH1	CH2	CH3	CH1	CH2	CH3
	Voltage	5V	12V	-5V	5V	12V	-12V
	Rated Current	15A	6A	0.6A	15A	5.5A	0.6A
	Current Range	2~20A	0.4~7A	0~1A	2~20A	0.4~7A	0~1A
	Voltage Adj. Range	CH1: 4.75~5.5V			CH1: 4.75~5.5V		
	Output Tolerance	± 3%	± 8%	± 6%	± 3%	± 8%	± 6%
	Line Regulation	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
	Load Regulation	± 3%	± 6%	± 4%	± 3%	± 6%	± 4%
	Ripple Noise MAX.	100mV	120mV	100mV	100mV	120mV	100mV
	Efficiency (Typ.)	75%			77%		
	Power	150W			148.2W		
	PROTECTION	Over Voltage	5.75~6.75V on +5V Shutdown o/p voltage, re-power on to recover				
Over Temperature		90°C ±5°C (TSW1) Shut down o/p voltage, recovers automatically after temperature goes down					
Over Load		105~150% rated output power; Hiccup mode, recovers automatically after fault condition is removed					
ELEC. CHAR.	Rise Time	<60mS at 115~230VAC at full load					
	Hold up Time	>24mS at 115~230VAC at full load					
	Setup Time	<0.8 Sec at 115~230VAC at full load					
ENVIRONMENT	Temperature	Operating: -10 ~ +60°C ; Storage: -20~ +85°C					
	Humidity	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% RH (non condensing)					
SAFETY	Withstand Voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute					
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC					
	Safety Standard	UL60950-1; TUV EN60950-1 Approved					
EMC	EMI	EN55022; EN61000-3-2,3					
	EMS	EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024					
OTHERS	Cooling	Forced air cooling by built-in DC fan					
	M.T.B.F.	161.6K hrs min. MIL-HDBK-217F (25°C)					
	Packing	0.9Kg; 20 pcs/19Kg/1.28 CUFT					

1 All parameters 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 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.

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	Inrush Current	<40A@230VAC input, Cold start at 25°C ambient					
	Leakage Current	<3.5mA@240VAC input					
OUTPUT	MODEL No.	TP-150C			TP-150D		
	Channel No.	CH1	CH2	CH3	CH1	CH2	CH3
	Voltage	5V	15V	-15V	5V	24V	12V
	Rated Current	15A	4.5A	0.6A	15A	3A	0.6A
	Current Range	2~20A	0.4~6A	0~1A	2~20A	0.4~4A	0~1A
	Voltage Adj. Range	CH1: 4.75~5.5V			CH1: 4.75~5.5V		
	Output Tolerance	± 3%	+10, -6%	± 6%	± 3%	± 8%	± 6%
	Line Regulation	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
	Load Regulation	± 3%	± 6%	± 4%	± 3%	± 6%	± 4%
	Ripple Noise MAX.	100mV	150mV	100mV	100mV	150mV	100mV
	Efficiency (Typ.)	77%			78%		
	Power	151.5W			154.2W		
	PROTECTION	Over Voltage	5.75~6.75V on +5V Shutdown o/p voltage, re-power on to recover				
Over Temperature		90°C ±5°C (T5W1) Shut down o/p voltage, recovers automatically after temperature goes down					
Over Load		105~150% rated output power; Hiccup mode, recovers automatically after fault condition is removed					
ELEC. CHAR.	Rise time	<60mS at 115~230VAC at full load					
	Hold up time	>24mS at 115~230VAC at full load					
	Setup time	<0.8 Sec at 115~230VAC at full load					
ENVIRONMENT	Temperature	Operating: -10 ~ +60°C ; Storage: -20~ +85°C					
	Humidity	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% RH (non condensing)					
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute					
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC					
	Safety standard	UL60950-1; TUV EN60950-1 Approved					
EMC	EMI	EN55022; EN61000-3-2,3					
	EMS	EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024					
OTHERS	Cooling	Forced air cooling by built-in DC fan					
	M.T.B.F.	161.6K hrs min. MIL-HDBK-217F (25°C)					
	Packing	0.9Kg; 20 pcs/19Kg/1.28 CUFT					

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