



### 75W Triple Output with PFC Function

# TP-75 series



#### Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections:Short circuit/Over load/Over voltage
- Low profile: 33mm thickness
- LED indicator for power on
- Cooling by free air convection
- Fixed switching frequency at PFC:67KHz PWM:134KHz
- 3 years warranty

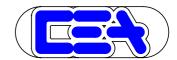
#### **SPECIFICATION**



MODEL		TP-75A			TP-75B			TP-75C		
	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
ОИТРИТ	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V
	RATED CURRENT	7A	3A	0.6A	7A	3A	0.4A	6A	2.5A	0.5A
	CURRENT RANGE	1.5 ~ 10A	0.2 ~ 4A	0~0.6A	1.5 ~ 10A	0.2 ~ 4A	0 ~ 0.6A	1.5 ~ 10A	0.2 ~ 3A	0~0.6A
	RATED POWER	74W			75.8W			75W		
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	100mVp-p	100mVp-p	120mVp-p	120mVp-p	100mVp-p	120mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V						<u>'</u>		
	VOLTAGE TOLERANCE Note.3	±3.0%	±4.0%	±8.0%	±3.0%	±4.0%	±8.0%	±3.0%	±4.0%	±8.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±3.0%	±4.0%	±8.0%	±3.0%	±4.0%	±8.0%	±3.0%	±4.0%	±8.0%
	SETUP, RISE TIME	800ms, 60ms at full load								
	HOLD TIME (Typ.)	36ms at full load								
	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load								
INPUT	EFFICIENCY (Typ.)	70%								
	AC CURRENT (Typ.)	1.5A/115VAC 0.8A/115VAC								
	INRUSH CURRENT (Typ.)	COLD START 20A/230VAC								
	LEAKAGE CURRENT	<2mA / 240VAC								
		105 ~ 150% rated output power								
PROTECTION	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION	01/50 1/01 74 05	5.75 ~ 6.75V on +5V								
	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
ENVIRONMENT	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	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B								
(Note 4)	HARMONIC CURRENT	Compliance t	o EN61000-3-2	2,-3						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A								
OTHERS	MTBF	198.4K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	179*99*33mr								
	PACKING	0.65Kg; 20pcs/12.7Kg/0.64CUFT								
NOTE	Ripple & noise are measure     Tolerance : includes set up     The power supply is consid     EMC directives.	ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  surred at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  t up tolerance, line regulation and load regulation.  nsidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets  and under low input voltages. Please check the derating curve for more details.								



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- Low profile: 33mm thickness
- LED indicator for power on
- Cooling by free air convection
- Fixed switching frequency at PFC:67KHz PWM:134KHz
- 3 years warranty

### SPECIFICATION



MODEL		TP-75D	<u> </u>		TP-7503					
	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3			
ОИТРИТ	DC VOLTAGE	5V	24V	12V	5V	3.3V	12V			
	RATED CURRENT	7A	1.5A	0.4A	9A	8A	0.3A			
	CURRENT RANGE	1.5 ~ 10A	0.2 ~ 2.5A	0 ~ 0.6A	1.5 ~ 10A	0.2 ~ 8A	0 ~ 0.6A			
	RATED POWER	75.8W			75W					
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	120mVp-p	100mVp-p	50mVp-p	120mVp-p			
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V	<u> </u>							
	VOLTAGE TOLERANCE Note.3	±3.0%	±4.0%	±8.0%	±3.0%	±4.0%	±8.0%			
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	POWER FACTOR	PF>0.95/230VAC PF>0.98/115VAC at full load								
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	AC CURRENT	1.5A/115VAC 0.8A/115VAC								
	INRUSH CURRENT (max.)	COLD START 20A/230VAC								
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	WORKING TEMP.	-10 ~ +60 °C (Refer to output load derating curve)								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
ENVIRONMENT	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	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B								
(Note 4)	HARMONIC CURRENT	Compliance to EN6	1000-3-2,-3							
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A								
OTHERS	MTBF	198.4K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	179*99*33mm (L*W*H)								
	PACKING	0.65Kg; 20pcs/12.7Kg/0.64CUFT								
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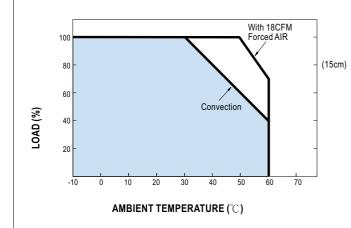
## ■ Mechanical Specification Case No. 920A Unit:mm LED +ADJ. □ 3 □ 4 □ 5 To 6 2-M4 L=4mm 4-M4 L=6mm 33 25 117

179

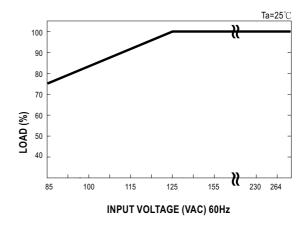
#### Terminal pin number assignment :

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

### ■ Derating Curve



### ■ Output Derating VS Input Voltage





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