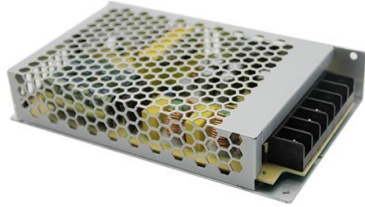




# 75W Triple Output with PFC Function

# ITTP-75 series



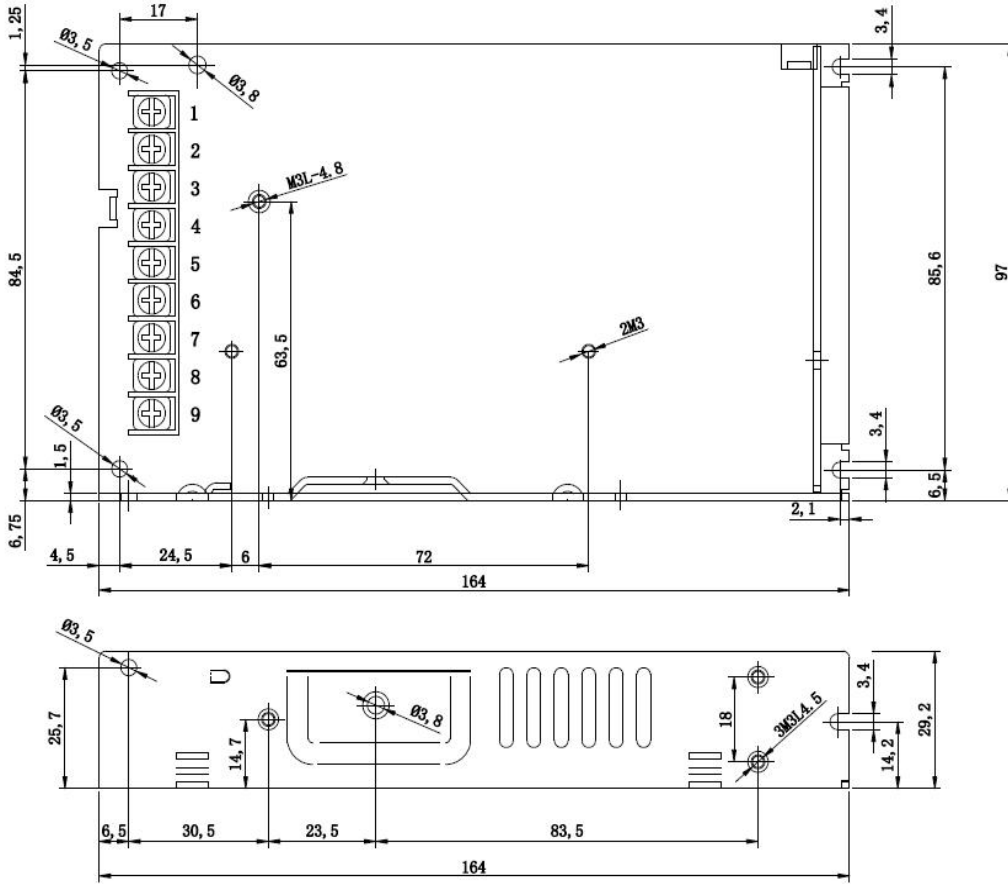
### ◆ Features:

- \* Universal AC input / Full range
- \* Built-in active PFC function, PF>0.95
- \* Protections: Short circuit / Overload / Over voltage
- \* LED indicator for power on
- \* Cooling by free air convection
- \* Fixed switching frequency at PFC:67KHz PWM : 134KHz
- \* 2 years warranty

MODEL		TP-75 I			TP-75 II			TP-75 III		
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	12V	-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.) <small>Note.2</small>	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								
	VOLTAGE TOLERANCE <small>Note.3</small>	±3.0%	±4.0%	±8.0%	±3.0%	±4.0%	±8.0%	±3.0%	±4.0%	±8.0%
	LINE REGULATION <small>Note.4</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION <small>Note.5</small>	±3.0%	±4.0%	±8.0%	±3.0%	±4.0%	±3.0%	±3.0%	±4.0%	±8.0%
	SETUP, RISE TIME	800ms, 60msat full load								
HOLD UP TIME (Typ.)	36ms at full load									
INPUT	VOLTAGE RANGE	90-264VAC		127-370VAC						
	FREQUENCY RANGE	47 ~ 63HZ								
	POWER FACTOR (Typ.)	PF>0.95/230VAC			PF>0.98/115VAC at full load					
	EFFICIENCY (Typ.)	70.0%								
	AC CURRENT (Typ.)	1.5A/115VAC		0.8A/115VAC						
	INRUSH CURRENT (Typ.)	COLD START 20A/230VAC								
	LEAKAGE CURRENT	<2mA / 240VAC								
PROTECT ION	OVERLOAD	105 ~ 150% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	5.75 ~ 6.75 on+5V Protection Type: Shut off o/p voltage, re-power on to recover								
ENVIRON MENT	WORKING TEMP.	-10 ~ +60 (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./1 cycle, 60min. each along X, Y, Z axes								
SAFETY & EMC <small>(Note 6)</small>	SAFETY STANDARDS	UL60950-1, CCC GB4943 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG: 0.5KVAC 1min.								
	ISOLATION RESISTANCE	I/P-O/P,I/P-FG:100MOhms/ 500VDC / 25°C/ 70%RH								
	EMC CONDICTION & RADIATION	Compliance to EN55032 (CISPR32) Class B								
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3								
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, light industry level, criteria A								
	MTBF	198.4Khrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	164*97*29.2mm (L*W*H)								
	PACKING	0.65Kg; 20pcs/12.7Kg/0.64CUFT								
NOTE	<p>1. All parameter NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. 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.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed to a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p> <p>5. Derating may be needed under low input voltages. Please check the derating curve for more details.</p>									



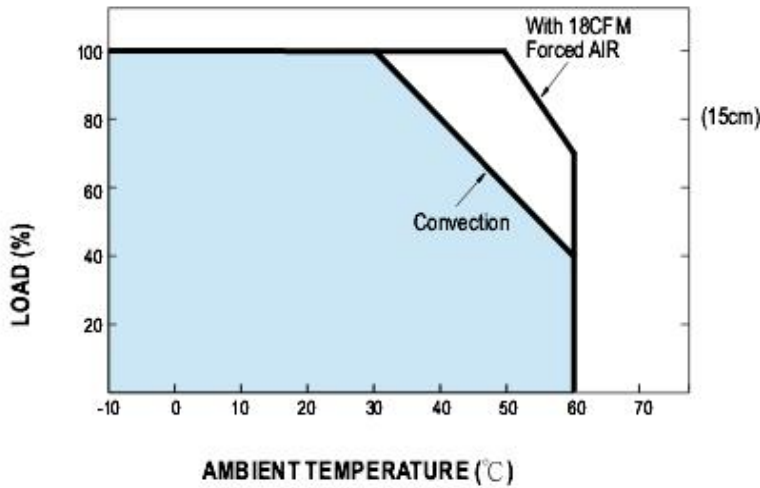
Dimension



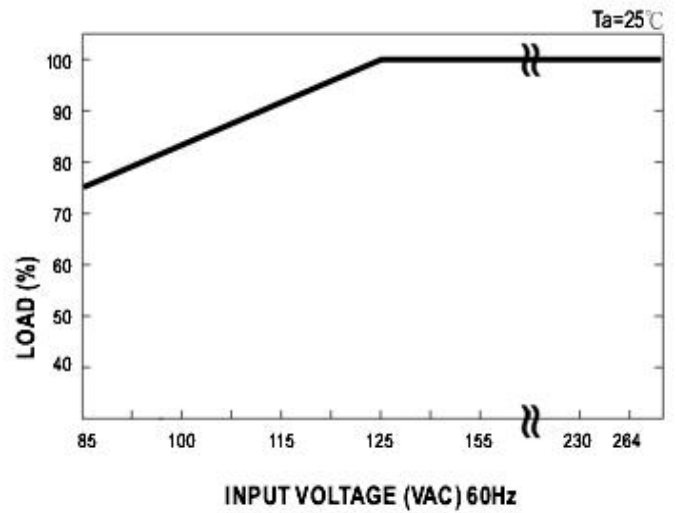
Terminal Pin No. Assignment

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

Derating Curve



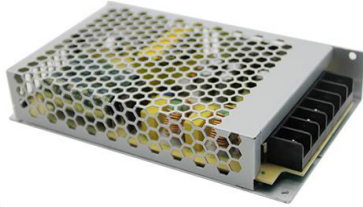
Output Derating VS Input Voltage





# 75W Triple Output with PFC Function

# ITTP-75 series



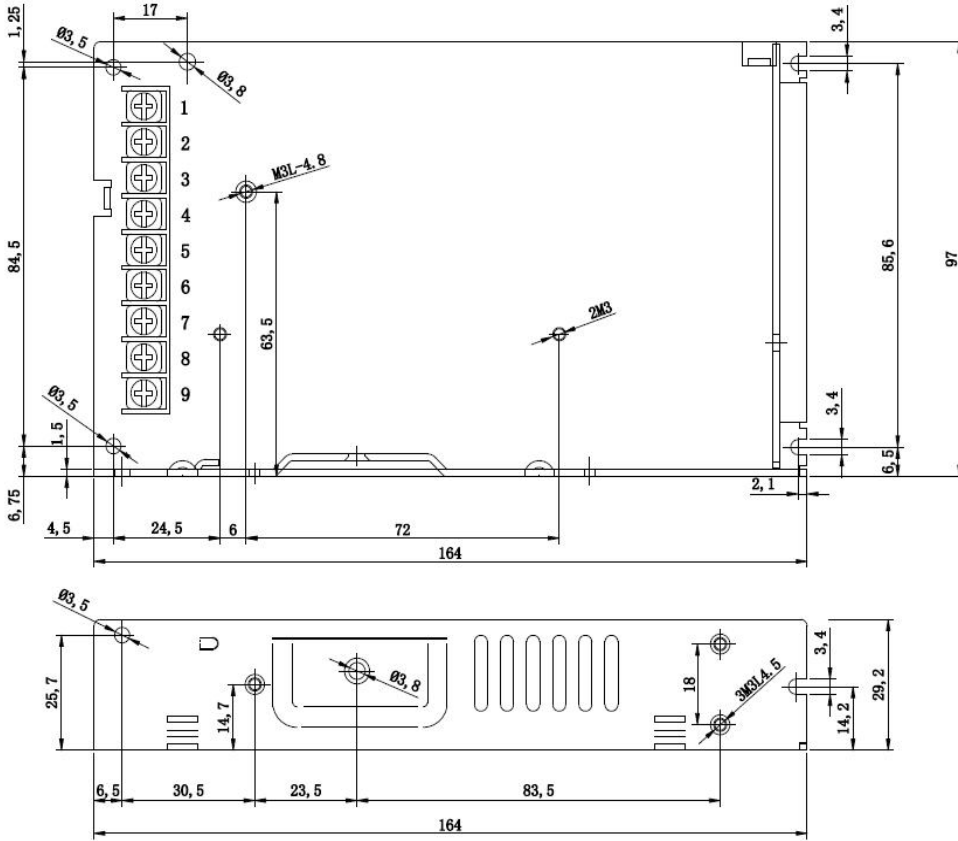
### ◆ Features:

- \* Universal AC input / Full range
- \* Built-in active PFC function, PF>0.95
- \* Protections: Short circuit / Overload / Over voltage
- \* LED indicator for power on
- \* 100% full load burn-in test
- \* Fixed switching frequency at PFC:67KHz PWM : 134KHz
- \* 2 years warranty

MODEL		TP-75IV			TP-75-03		
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3
	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.) <small>Note.2</small>	100mVp-p	120mVp-p	120mVp-p	100mVp-p	50mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V					
	VOLTAGE TOLERANCE <small>Note.3</small>	±3.0%	±4.0%	±8.0%	±3.0%	±4.0%	±8.0%
	LINE REGULATION <small>Note.4</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION <small>Note.5</small>	±3.0%	±4.0%	±8.0%	±3.0%	±4.0%	±8.0%
	SETUP, RISE TIME	800ms, 60msat full load					
	HOLD UP TIME (Typ.)	36ms at full load					
INPUT	VOLTAGE RANGE	90-264VAC		127-370VAC			
	FREQUENCY RANGE	47 ~ 63HZ					
	POWER FACTOR (Typ.)	PF>0.95/230VAC		PF>0.98/115VAC at full load			
	POWER FACTOR (Typ.)	70.0%					
	AC CURRENT (Typ.)	1.5A/115VAC		0.8A/115VAC			
	INRUSH CURRENT (Typ.)	COLD START 20A/230VAC					
	LEAKAGE CURRENT	<2mA / 240VAC					
PROTECT ION	OVERLOAD	105 ~ 150% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	5.75 ~ 6.75 on+5V Protection Type: Shut off o/p voltage, re-power on to recover					
ENVIRON MENT	WORKING TEMP.	-10 ~ +60 (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./1 cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC <small>(Note 6)</small>	SAFETY STANDARDS	UL60950-1, CCC GB4943 approved					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG: 0.5KVAC 1min.					
	ISOLATION RESISTANCE	I/P-O/P,I/P-FG:100MOhms/ 500VDC / 25°C/ 70%RH					
	EMC CONDICTION & RADIATION	Compliance to EN55032 (CISPR32) Class B					
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, light industry level, criteria A					
OTHERS	MTBF	198.4Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	164*97*29.2mm (L*W*H)					
	PACKING	0.65Kg; 20pcs/12.7Kg/0.64CUFT					
NOTE	<p>1. All parameter NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. 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.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed to a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p> <p>5. Derating may be needed under low input voltages. Please check the derating curve for more details.</p>						



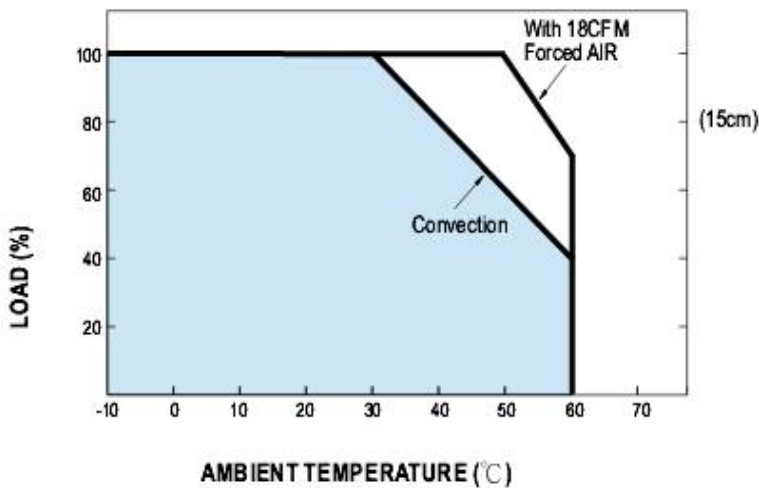
## Dimension



## Terminal Pin No. Assignment

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

## Derating Curve



## Output Derating VS Input Voltage

