



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



Model Number	Output Volts	Output Amps	Ripple & Noise	Load Reg	Volt Tolerance	Min Load
<b>TRIPLE OUTPUT</b>						
TP75-A	5 Volts(DC)	7.0 Amps	100mVpk-pk	±3.0%	±3.0%	1.5~10Amps
	12 Volts(DC)	3.0 Amps	120mVpk-pk	±4.0%	±4.0%	0.2~4.0Amps
	-5 Volts(DC)	0.6 Amps	100mVpk-pk	±8.0%	±8.0%	0~0.6Amps
TP75-B	5 Volts(DC)	7.0 Amps	100mVpk-pk	±3.0%	±3.0%	1.5~10Amps
	12 Volts(DC)	3.0 Amps	120mVpk-pk	±4.0%	±4.0%	0.2~4.0Amps
	-12 Volts(DC)	0.4 Amps	120mVpk-pk	±8.0%	±8.0%	0~0.6Amps
TP75-C	5 Volts(DC)	6.0 Amps	100mVpk-pk	±3.0%	±3.0%	1.5~10Amps
	15 Volts(DC)	2.5 Amps	120mVpk-pk	±4.0%	±4.0%	0.2~3.0Amps
	-15 Volts(DC)	0.5 Amps	120mVpk-pk	±8.0%	±8.0%	0~0.6Amps

## 75W Triple Output with PFC Function

## TP75 series

### INPUT SPECIFICATIONS

Input Voltage Range (Note 3)	90-264VAC / 127-370 Volts(DC)
Frequency Range	47-63 Hz
Inrush Current, typ: (cold start)	20 Amps @ 230VAC
Input Current	1.5 Amps max @ 115VAC 0.8 Amps max @ 230VAC
Leakage current	< 2mA / 240 VAC
Power Factor @ FL	PF > 0.95/230VAC >0.98/115VAC

### OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	±1.0%
Load Regulation	See Selection Chart
Voltage Tolerance (Note 2)	See Selection Chart
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time @ FL	36mS
Setup, Rise Time @ FL	800mS, 60mS
Over Voltage Protection	5Volts(DC) only: 5.75~6.75Volts(DC) Shutdown o/p voltage, re-power
Over Current Protection	105~150% rated output power Hiccup mode, auto-recover
DC Voltage Adjust	5Volts(DC) : 4.5~5.5Volts(DC)

### GENERAL SPECIFICATIONS

Safety	UL60950-1 TUV EN60950-1 approved
Insulation Resistance	≥ 100MΩ / 500 Volts(DC)
EMI	Compliance to EN55022 (CISPR22) Class B
Harmonic Current	Compliance to EN61000-3-2,-3
Efficiency	70% typ.
Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground 1min

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

EMS	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024 light industry level, criteria A
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### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10°C to +60°C (See Derate Curve)
Storage Temperature	-20°C to +85°C, 10~95% RH
Relative Humidity	20 to +90% RH non cond
Temperature Coefficient	±0.03% / °C (0-50°C)
MTBF	198.4KHrs min, MIL-HDBK-217F (25°C)
Vibration	10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes

### PHYSICAL SPECIFICATIONS

Size	Millimeters	179 x 99 x 33
	Inches	7.05" x 3.90" x 1.30"
Weight		22.93 oz (650g)

### NOTE

1. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.
3. Derating may be needed under low input voltages. Please check the derating curve for more details.

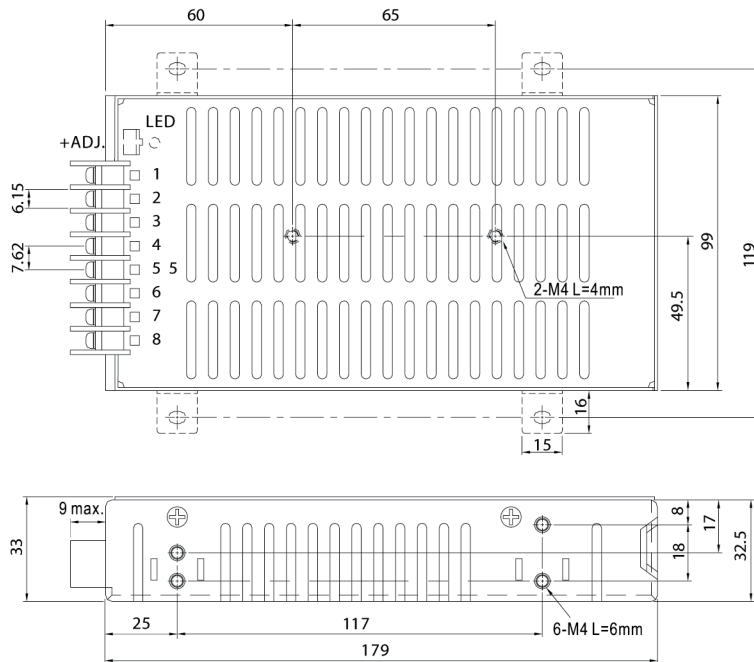
**Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.**

## 75W Triple Output with PFC Function

# TP75 series

### Mechanical Specification

Case No. 920A Unit:mm

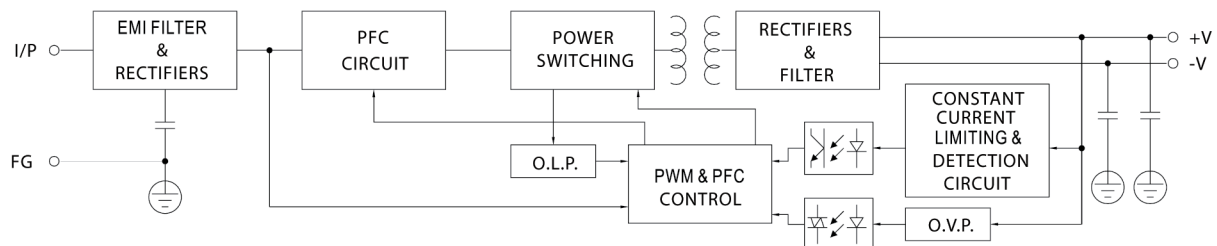


Terminal Pin No. Assignment

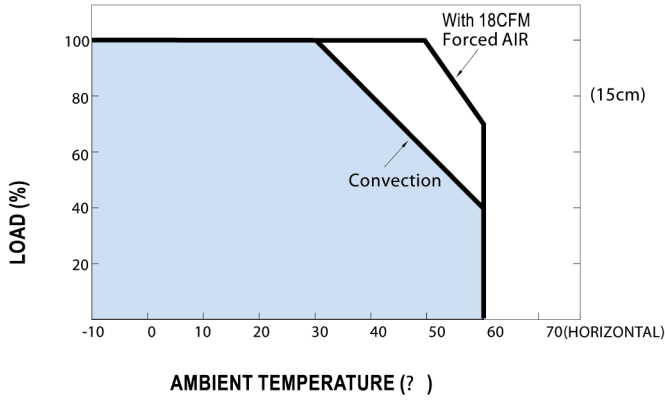
Pin No.	Assignment	Pin No.	Assignment
1	DC OUTPUT +V2	6	FG $\perp$
2,3	COM	7	AC/N
4	DC OUTPUT +V1	8	AC/L
5	DC OUTPUT +V3		

### Block Diagram

PFC fosc : 67KHz  
PWM fosc : 134KHz



■ Derating Curve



■ Output Derating VS Input Voltage

