



- 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
TRIPLE OUTPUT						
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

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

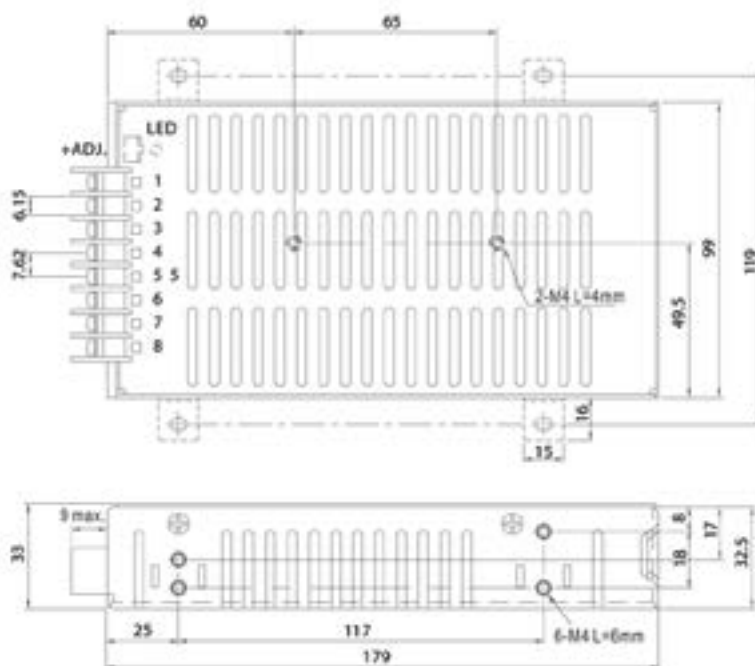
1. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.
3. Derating may be needed under low input voltages. Please check the derating curve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

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

Mechanical Specification

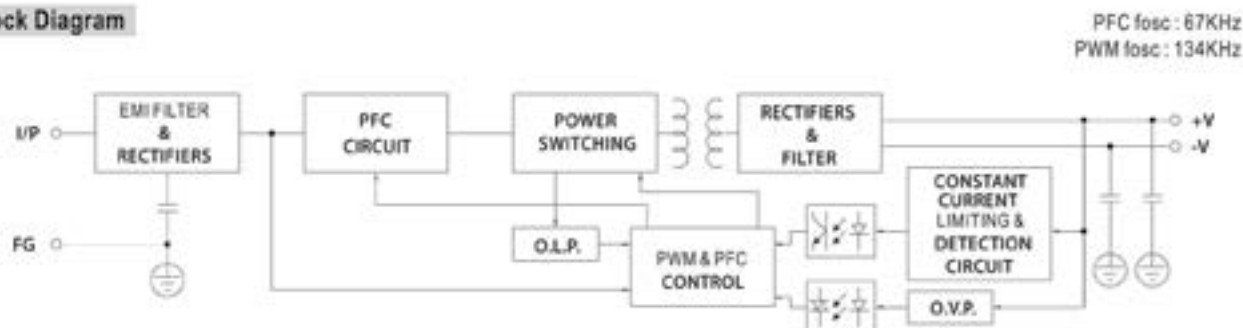
Case No. 920A Unit:mm



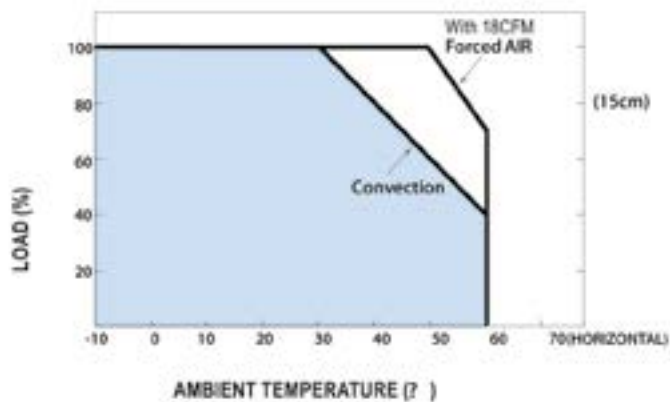
Terminal Pin No. Assignment

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		

Block Diagram



Derating Curve



Output Derating VS Input Voltage

