



- Auto switched 88 ~ 264VAC input
- Built-in passive PFC choke
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built in cooling FAN ON-OFF control
- LED indicator for power on
- Fixed switching frequency at 75KHz



Model Number	Output Volts	Output Amps	OVP	Min Load	DC Volt Adjust	Efficiency
<b>SINGLE OUTPUT</b>						
S240-5	5 Volts(DC)	40 Amps	6.0~ 7.0Volt(DC)	0~40Amps	4.5~5.8Volt(DC)	78%
S240-7.5	7.5 Volts(DC)	30 Amps	9.4~ 10.9Volt(DC)	0~30Amps	6~9Volt(DC)	80%
S240-12	12 Volts(DC)	18 Amps	14.4 ~ 16.8Volt(DC)	0~18Amps	10~14Volt(DC)	82%
S240-15	15 Volts(DC)	15 Amps	18.5 ~ 21.5Volt(DC)	0~15Amps	12~18Volt(DC)	83%
S240-24	24 Volts(DC)	10Amps	31.2 ~ 36Volt(DC)	0~10Amps	20~28Volt(DC)	84%
S240-30	30 Volts(DC)	8 Amps	34.5~ 40.5Volt(DC)	0~8Amps	27~33Volt(DC)	85%
S240-48	48 Volts(DC)	5 Amps	57.6~ 67.2Volt(DC)	0~5Amps	41~56Volt(DC)	87%



## 240W Single Output Switching Power Supply

## S240 series

### INPUT SPECIFICATIONS

Input Voltage Range	90~132VAC/176~264VAC auto switch 248~370 Volts(DC)
Frequency Range	47-63 Hz
Inrush Current, typ: (cold start)	15Amps/115VAC; 30Amps 230VAC
Input Current	5.0 Amps @ 115VAC 2.5 Amps @ 230VAC
Leakage current	< 2.0 mAmps / 240VAC
Min Load	See Selection Chart
Power Factor @ FL	PF> 0.95 / 230VAC > 0.95 / 115VAC

### OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	±0.5%: 5~30Volts(DC) ±1.0%: 48Volts(DC)
Load Regulation	±1.0%: 5;7.5;48Volts(DC)
Voltage Tolerance (Note 2)	±2.0%: 5~7.5Volts(DC) ±1.0%: 12~48Volts(DC)
Ripple/Noise (Note 1)	150mVpk-pk: 5;12;15Volts(DC) 180mVpk-pk: 24~30Volts(DC) 200mVpk-pk: 7.5Volts(DC) 240mVpk-pk: 48Volts(DC)
Hold Up Time @ FL	36mS
Setup, Rise Time @ FL	1000mS, 20mS
Over Voltage Protection	See Selection Chart Hiccup mode, auto recovers
Over Current Protection	105~135% rated output power Hiccup mode, auto recovers
DC Volt Adjust	See Selection Chart
Fan Control, O.T.P	RT1≥ 40°C FAN ON ≤ 35°C FAN OFF ≥ 70°C output shutdown

### GENERAL SPECIFICATIONS

Safety	UL60950-1, TUV EN60950-1 Approved 7.5Volts(DC) design refer to TUV EN6050-1
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All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

Insulation Resistance	≥ 100MΩ / 500Volts(DC)
EMI	Compliance to EN55022B (CISPR22B)
Harmonic Current	Compliance to EN61000-3-2,-3
Remote Control	RC+/RC-: short= Power on Open= Power off
Efficiency	See Selection Chart
Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground
EMS	Compliance to EN61000-4-2,3,4,5,6,8,11 ENV50204, light Industry Level, Criteria A

### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10°C to +60°C (See Derate Curve)
Storage Temperature	-20°C to +85°C, 10~95% RH
Relative Humidity	20~90% RH non cond
Temperature Coefficient	±0.03% / °C (0-50°C)
MTBF	179.3KHrs min, MIL-HDBK-217F(25°C)
Vibration	10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes

### PHYSICAL SPECIFICATIONS

Size	190x 93 x 65mm (7.48"x3.66 "x2.56")
Weight	42.33 oz (1200g)

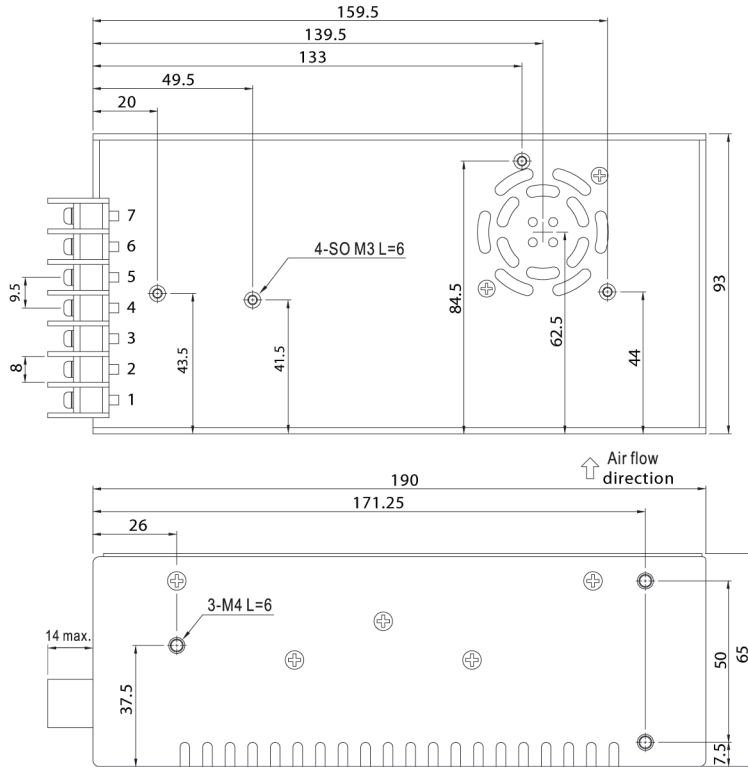
### NOTE

1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2. Tolerance : includes set up tolerance, line regulation and load regulation.

**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.**

### Mechanical Specification

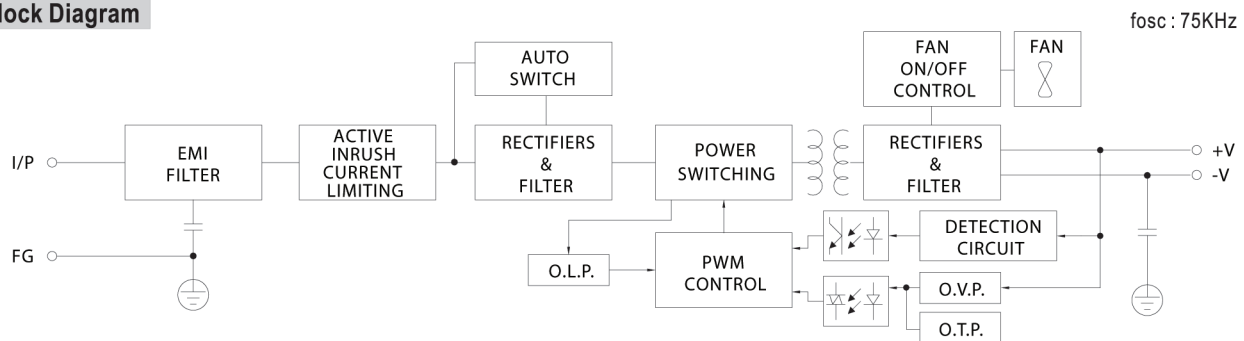
Case No. 911 Unit:mm



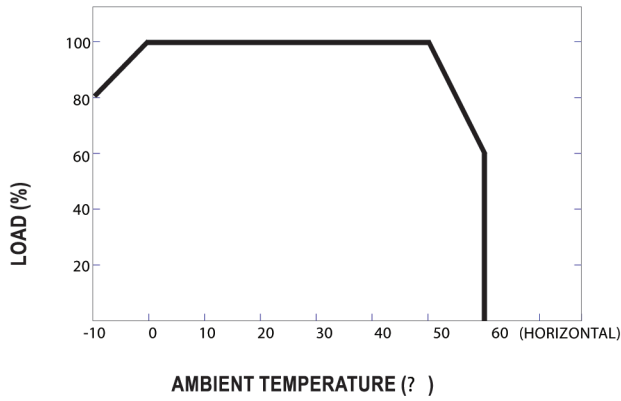
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT -V
2	AC/N	6,7	DC OUTPUT +V
3	FG $\perp$		

### Block Diagram



■ Derating Curve



■ Static Characteristics (24V)

