

- Universal AC input
- LED indicator for power on
- Protections: Short circuit / Overload / Over voltage
- All using 105°C long life electrolytic capacitors
- Cooling by free air convection
- High efficiency, long life and high reliability



Model Number	Output Volts	Output Amps	Ripple & Noise	Line Reg	Load Reg	Efficiency	Volt Tolerance	Min Load
<b>Quad OUTPUT</b>								
RQ85-B	5 Volts(DC)	7.0 Amps	80mVpk-pk	±0.5%	±1.0%	76%	±2.0%	2.0~10Amps
	12 Volts(DC)	3.1 Amps	120mVpk-pk	±1.0%	±3.0%	76%	+7,-3%	0.3~4.0Amps
	-5 Volts(DC)	0.5 Amps	100mVpk-pk	±1.0%	±6.0%	76%	±8.0%	0~1.0Amps
	-12Volts(DC)	0.5 Amps	80mVpk-pk	±1.0%	±2.0%	76%	±5.0%	0~1.0Amps
RQ85-C	5 Volts(DC)	7.0 Amps	80mVpk-pk	±0.5%	±1.0%	77%	±2.0%	2.0~10Amps
	15 Volts(DC)	2.5 Amps	120mVpk-pk	±1.0%	±3.0%	77%	+3,-7%	0.3~4.0Amps
	-5 Volts(DC)	0.5 Amps	100mVpk-pk	±1.0%	±6.0%	77%	±8.0%	0~1.0Amps
	-15 Volts(DC)	0.5 Amps	80mVpk-pk	±1.0%	±2.0%	77%	±5.0%	0~1.0Amps
RQ85-D	5 Volts(DC)	6.0Amps	80mVpk-pk	±0.5%	±1.0%	78%	±2.0%	2.0~10Amps
	12 Volts(DC)	2.0 Amps	120mVpk-pk	±1.0%	±3.0%	78%	+7,-3%	0.3~4.0Amps
	24 Volts(DC)	1.0Amps	150mVpk-pk	±1.0%	±5.0%	78%	+8.0%	0.1~1.5Amps
	-12 Volts(DC)	0.5 Amps	80mVpk-pk	±1.0%	±2.0%	78%	±5.0%	0~1.0Amps



## 85W Quad Output Switching Power Supply

## RQ85 series

### INPUT SPECIFICATIONS

Input Voltage Range	90-264VAC / 125-373 Volts(DC)
Frequency Range	47~63Hz
Inrush Current, typ: (cold start)	40 Amps @ 230VAC
Input Current	2.5Amps max @115VAC 1.5Amps max @230VAC
Leakage current	< 2.0mAmps / 240VAC

### OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation (Note 3)	See Selection Chart
Load Regulation (Note 4)	See Selection Chart
Voltage Tolerance (Note 2)	See Selection Chart
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time @ FL	100mS/230VAC, 18mS/115VAC
Setup, Rise Time @ FL	500mS, 20mS/230VAC 1200mS, 30mS/115VAC
Over Voltage Protection	5Volts(DC) only: 5.75~6.75Volts(DC) Hiccup mode, auto recover
Over Current Protection	110~150% rated output power Hiccup mode, auto recover
DC Voltage Adjust	5Volts(DC)only: 4.75~5.5Volts(DC)

### GENERAL SPECIFICATIONS

Safety	UL60950-1 TUV EN60950-1 Approved
Insulation Resistance	≥100MΩ/500Volts(DC)/25°C/70%RH
EMI	Compliance to EN55022B (CISPR22B)
Harmonic Current	Compliance to EN61000-3-2,-3
Efficiency	See Selection Chart
Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground

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

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EMS	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2(EN50082-2) heavy industry level, criteria A
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### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25°C to +70°C (See Derate Curve)
Storage Temperature	-40°C to +85°C, 10~95% RH
Relative Humidity	20 to +90% RH non cond
Temperature Coefficient	±0.03% / °C (0-50°C) on +5Volts output
MTBF	206.8K Hrs min, MIL-HDBK-217F (25°C)
Vibration	10~500Hz, 5G10min./1cycle, period for 60min. each along X, Y, Z axes

### PHYSICAL SPECIFICATIONS

Size	Millimeters	159 x 97 x 38
	Inches	6.26" x 3.82" x 1.50"
Weight		21.16 oz (600g)

### NOTE

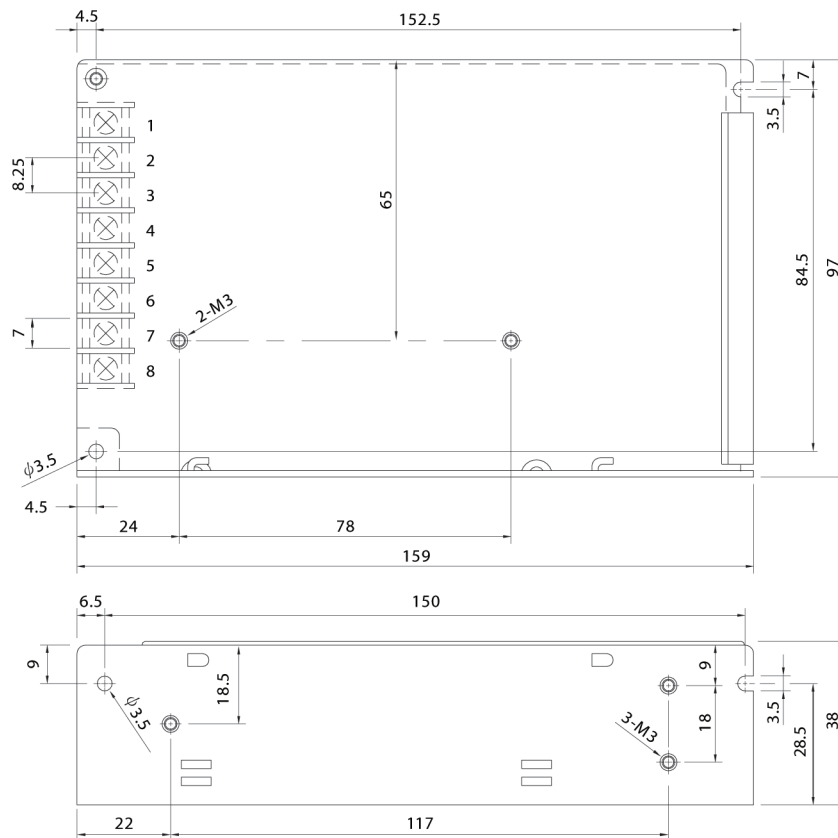
1. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.
3. Line regulation is measured from low line to high line at rated load.
4. Load regulation is measured from 20% to 100% rated load, an other output at 60% rated load.

**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.**

ASTRODYNE USA: 1-800-823-8082  
ASTRODYNE PACIFIC: 886-2-26983458

■ Mechanical Specification

Case No. 901 Unit:mm

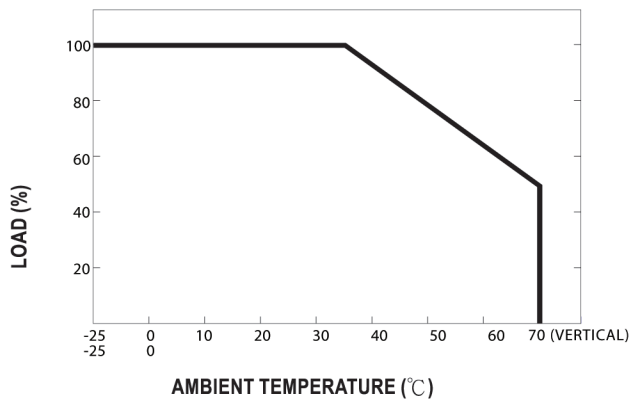


Terminal Pin. No Assignment

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V4	7	DC OUTPUT COM
2	AC/N	5	DC OUTPUT V3	8	DC OUTPUT +V1
3	FG $\perp$	6	DC OUTPUT +V2		



### ■ Derating Curve



### ■ Static Characteristics

