



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



Model Number	Output Volts	Output Amps	Ripple & Noise	Min Load	Line Reg	Load Reg	Volt Tolerance
<b>TRIPLE OUTPUT</b>							
RT85-A	5 Volts(DC)	8.0 Amps	80mV pk-pk	2~10Amps	±0.5%	±1.0%	±2.0%
	12 Volts(DC)	3.5 Amps	120mV pk-pk	0.3~4Amps	±1.0%	±3.0%	±5.0%
	-5 Volts(DC)	0.5 Amps	100mV pk-pk	0~1Amps	±1.0%	±6.0%	±6.0%
RT85-B	5 Volts(DC)	8.0 Amps	80mV pk-pk	2~10Amps	±0.5%	±1.0%	±2.0%
	12 Volts(DC)	3.5 Amps	120mV pk-pk	0.3~4Amps	±1.0%	±3.0%	±5.0%
	-12 Volts(DC)	0.5 Amps	120mV pk-pk	0~1Amps	±1.0%	±6.0%	±6.0%
RT85-C	5 Volts(DC)	7.0 Amps	80mV pk-pk	2~10Amps	±0.5%	±1.0%	±2.0%
	15 Volts(DC)	3.0 Amps	120mV pk-pk	0.3~4Amps	±1.0%	±3.0%	+3,-7%
	-15 Volts(DC)	0.5 Amps	120mV pk-pk	0~1Amps	±1.0%	±6.0%	±6.0%
RT85-D	5 Volts(DC)	6.0 Amps	80mV pk-pk	2~10Amps	±0.5%	±1.0%	±2.0%
	24 Volts(DC)	2.0 Amps	150mV pk-pk	0.3~2.5Amps	±1.0%	±3.0%	±5.0%
	12 Volts(DC)	1.0 Amps	120mV pk-pk	0.1~1Amps	±1.0%	±6.0%	±6.0%

### INPUT SPECIFICATIONS

Input Voltage Range	90 ~ 264 VAC; 125~373 Volts(DC)
Frequency Range	47-63 Hz
Inrush Current, typ: (cold start)	40Amps / 230VAC
Input Current	2.5 Amps. @ 115VAC
	1.5 Amps. @ 230VAC
Leakage current	< 2mAmps /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, 20m/230VAC
	1200mS, 30mS/115VAC
Over Voltage Protection	5Volts only: : 5.75 ~ 6.75VDC
	Hiccup mode, auto recover
Over Current Protection	110 ~ 150% rated output power
	Hiccup mode, auto recover
DC Volt Adjust	5Volts only: 4.75 ~ 5.5V

### GENERAL SPECIFICATIONS

Safety	UL60950-1, TUV EN60950-1 Approved
Insulation Resistance	≥ 100MΩ / 500Volts (DC)
EMI	Compliance to EN55022 (CISPR22) Class B
Harmonic Current	Compliance to EN61000-3-2,-3
Efficiency	76% (RT85-A/B)
	77% (RT85-C)
	79% (RT85-D)
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

EMS	Compliance to
	EN61000-4-2, 3, 4, 5, 6, 8, 11;
	ENV50204, EN61000-6-2(EN50082-2)
	Heavy Industry Level, Criteria A

### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25°C to +70°C (See Derate Curve)
Storage Temperature	-40°C to +85°C, 10~95% RH
Relative Humidity	20~90% RH non cond
Temperature Coefficient	0.03% / °C (0-50°C) on +5V output
MTBF	215 KHrs 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	3.90" x 3.82" x 1.42"
Weight		21.16 oz (600g)

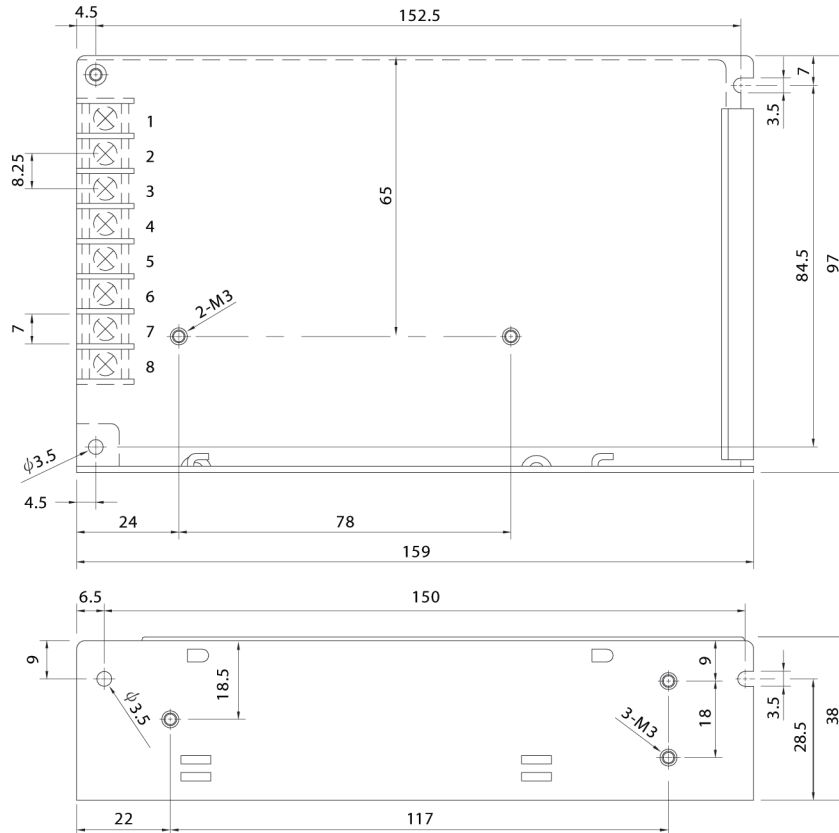
### NOTE

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.
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, and other output at 60% rated load.
5. Each output can work within current range. But total output power can't exceed rated output power.

**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

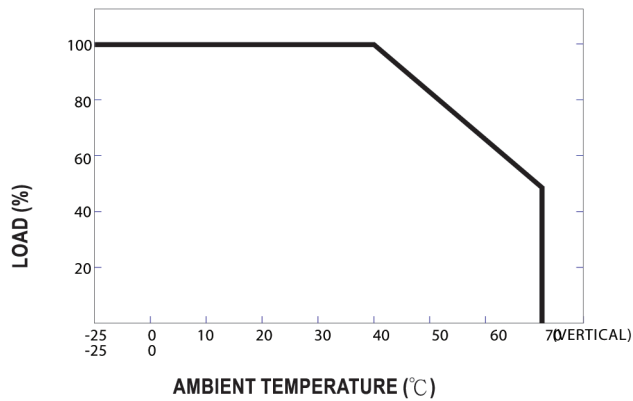
Case No. 901C Unit:mm



Terminal Pin. No Assignment

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	NC	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

