

- 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	DC Volt Adjust	Load Reg	Volt Tolerance
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SINGLE OUTPUT

RS100-3.3	3.3 Volts(DC)	20 Amps	80mV pk-pk	0~20Amps	3.2~3.5Volt(DC)	±2.0%	±3.0%
RS100-5	5 Volts(DC)	16 Amps	80mV pk-pk	0~16Amps	4.75~5.5Volt(DC)	±1.0%	±2.0%
RS100-12	12 Volts(DC)	8.5 Amps	120mV pk-pk	0~8.5Amps	11.4~13.2Volt(DC)	±0.5%	±1.0%
RS100-15	15 Volts(DC)	7.0 Amps	120mV pk-pk	0~7.0Amps	14.25~16.5Volt(DC)	±0.5%	±1.0%
RS100-24	24 Volts(DC)	4.5 Amps	120mV pk-pk	0~4.5Amps	22.8~26.4Volt(DC)	±0.5%	±1.0%
RS100-48	48 Volts(DC)	2.3 Amps	200mV pk-pk	0~2.3Amps	45.6~52.8Volt(DC)	±0.5%	±1.0%



100W Single Output Switching Power Supply

RS100 series

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
Min Load	See Selection Chart

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation (Note 3)	±0.5%
Load Regulation (Note 4)	See Selection Chart
Voltage Tolerance (Note2)	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	3.8 ~ 4.45Volt(DC): 3.3Volts(DC) 5.75 ~ 6.75Volt(DC): 5Volts(DC) 13.8 ~ 16.2Volt(DC): 12Volts(DC) 17.25 ~ 20.25Volt(DC): 15Volts(DC) 27.6~ 32.4Volt(DC): 24Volts(DC) 55.2~ 64.8Volt(DC): 48Volts(DC) Hiccup mode, auto recov
Over Current Protection	110 ~ 150% rated output power Hiccup mode, auto recov
DC Volt Adjust	See Selection Chart

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

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

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Efficiency	74% (RS100-3.3) 77% (RS100-5) 81% (RS100-12) 82% (RS100-15) 84% (RS100-24) 84%(RS100-48)
Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground
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)
MTBF	260.8KHrs 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 3.81" x 1.50"
Weight		21.16 oz (600g)

NOTE

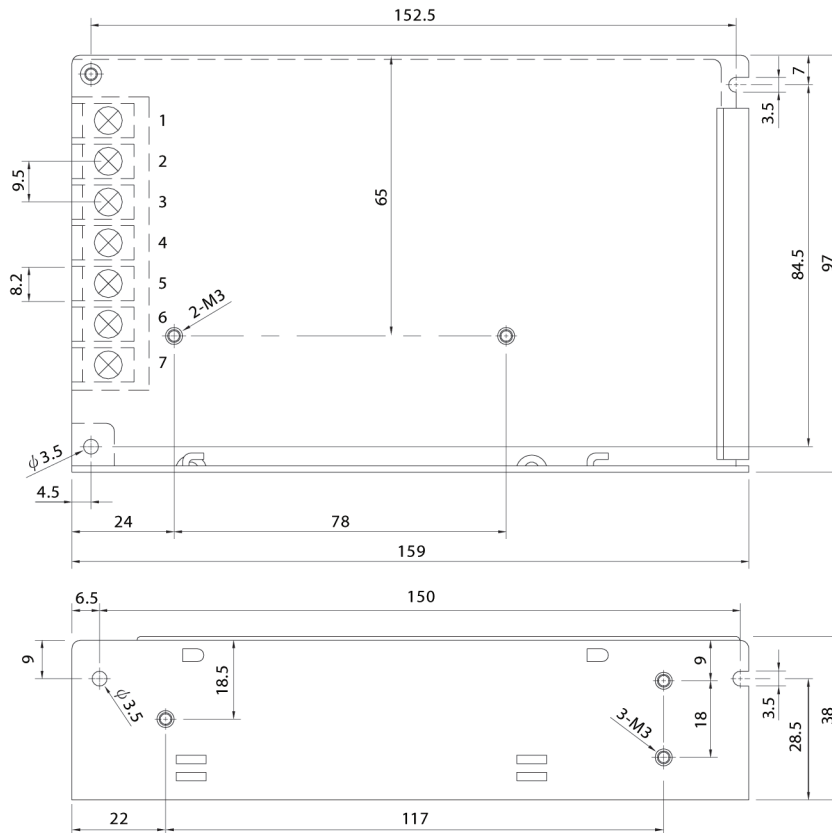
1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2. Tolerance : includes set up tolerance, line regulation and load regulation.
3. Line regulation is measured from low line to high line at rated load.
4. Load regulation is measured from 0% to 100% 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. 901C Unit:mm

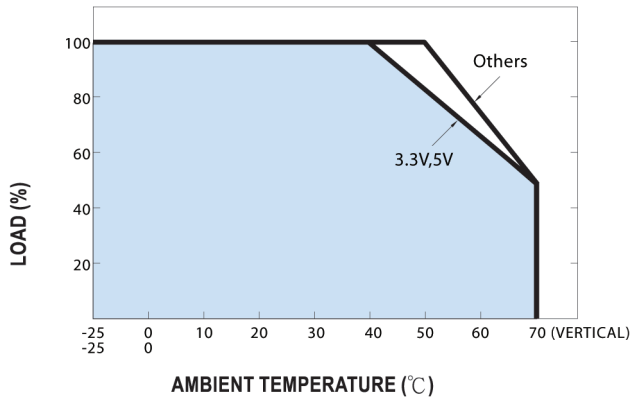


Terminal Pin. No Assignment

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		



■ Output Derating



■ Static Characteristics

