Astrodyne TDI
Now you have power.

150W Single Output Switching Power Supply

RS150 series



- 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
- Withstands a 5G Vibration Test
- High efficiency, long life and high reliability

Model Number	Output Volts	Output Amps	Ripple & Noise	Min Load	DC Volt Adjust	Load Reg	Volt Tolerance
SINGLE OUTPUT							
RS150-3.3	3.3 Volts(DC)	30 Amps	80mV pk-pk	0~30Amps	3.2~3.5Volt(DC)	±2.0%	±3.0%
RS150-5	5 Volts(DC)	26 Amps	80mV pk-pk	0~26Amps	4.75~5.5Volt(DC)	±1.0%	±2.0%
RS150-12	12 Volts(DC)	12.5 Amps	120mV pk-pk	0~12.5Amps	11.4~13.2Volt(DC	±0.5%	±1.0%
RS150-15	15 Volts(DC)	10 Amps	120mV pk-pk	0~10Amps	14.25~16.5Volt(DC)	±0.5%	±1.0%
RS150-24	24 Volts(DC)	6.5 Amps	120mV pk-pk	0~6.5Amps	22.8~26.4Volt(DC)	±0.5%	±1.0%
RS150-48	48 Volts(DC)	3.3 Amps	200mV pk-pk	0~3.3Amps	45.6~52.8Volt(DC)	±0.5%	±1.0%

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INPUT SPECIFICATIONS

Input Voltage Range	88~132VAC / 176~240VAC selected
	by switch 248~373 Volts(DC)
Frequency Range	47-63 Hz
Inrush Current, typ: (cold start)	40Amps / 230VAC
Input Current	3.0 Amps. @ 115VAC
	2.0 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	28mS/230VAC
	20mS/115VAC
Setup, Rise Time @ FL	800ms, 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 recover
Over Current Protection	110 ~ 150% rated output power
	Hiccup mode, auto recover
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
Efficiency	74% (RS150-3.3)
	78% (RS150-5)
	83% (RS150-12)
	84% (RS150-15)
	86% (RS150-24)
	87%(RS150-48)
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	244KHrs min,MIL-HDBK-217F(25°C)
Vibration	10~500Hz, 5G10min./1cycle, period for
	60min. each along X, Y, Z axes

PHYSICAL SPECIFICATIONS

Size		
	Millimeters	199 x 98 x 38
	Inches	7.83" x 3.86 " 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.

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

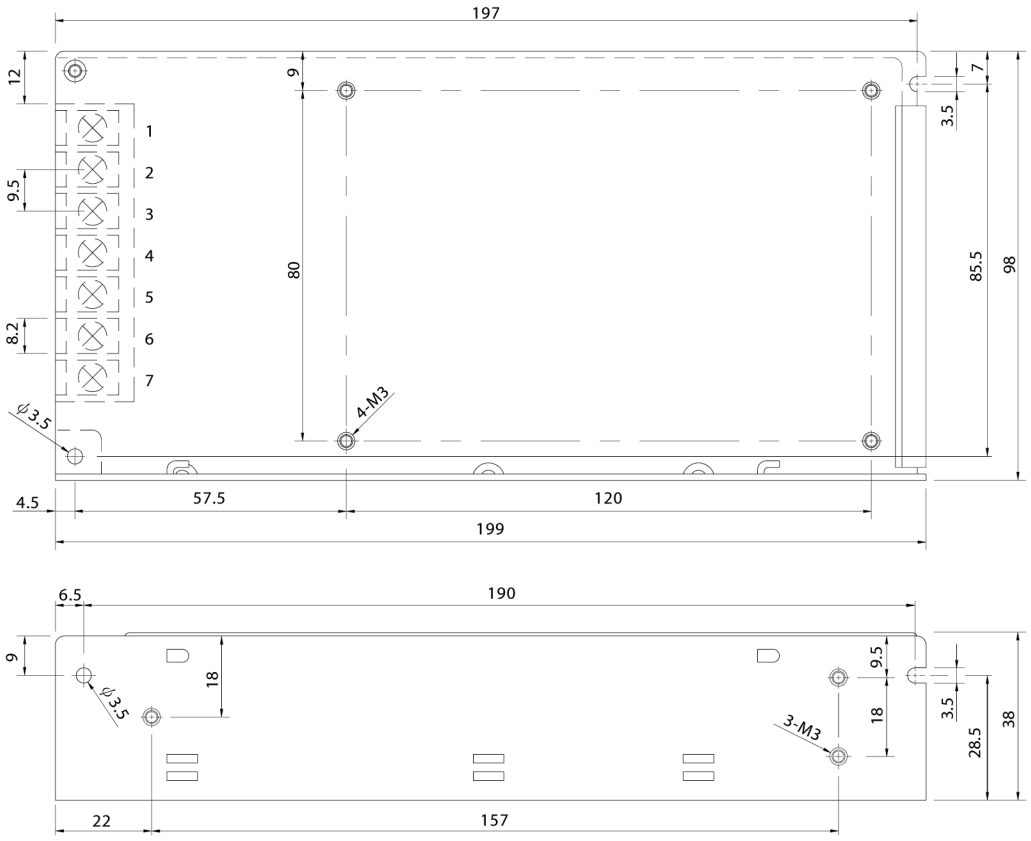
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■ Mechanical Specification

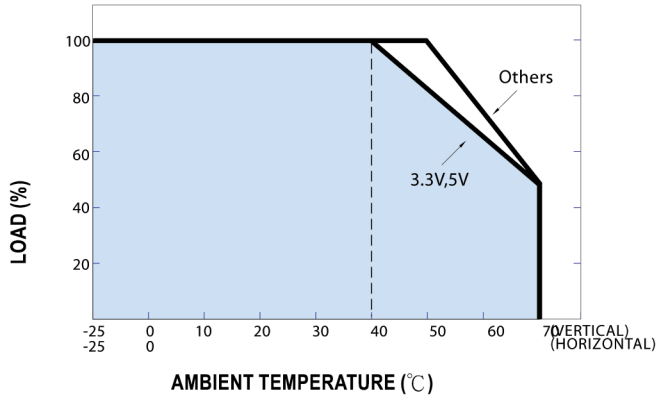
Case No. 902A Unit:mm



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 ⏚		

■ Output Derating



■ Static Characteristics

