

120W Single Output Industrial DIN Rail Power Supply

DR120 series



- Universal AC input
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Isolation class II
- LED indicator for power on
- UL508 (industrial control equipment) approved
- Fixed switching frequency at 55KHz



Model Number	Output Volts	Output Amps	Min Load	Efficiency	Ripple and Noise	DC Volt Adjust	OVP	OTP
SINGLE OUTPUT								
DR120-12	12 Volts(DC)	10 Amps	0 ~ 10Amps	80%	80mVpk-pk	12~14V	15~16.5V	85°C ±5°C
DR120-24	24 Volts(DC)	5 Amps	0 ~ 5Amps	84%	80mVpk-pk	24~28V	29~33V	90°C ±5°C
DR120-48	48 Volts(DC)	2.5 Amps	0 ~ 2.5Amps	85%	100mVpk-pk	48~53V	58~65V	90°C ±5°C

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INPUT SPECIFICATIONS

Input Voltage Range	90~264VAC / 120-370 Volts (DC)
Frequency Range	47-63 Hz
Inrush Current, typ: (cold start)	20 Amps @ 115VAC
	40 Amps @ 230VAC
Input Current	1.6 Amps. @ 115VAC
	0.96 Amps. @ 230VAC
Leakage current	< 1mA / 240VAC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	± 0.5% max
Load Regulation	± 1%
Voltage Tolerance (Note 2)	± 2% 12Volts(DC) only
	± 1% 24~48Volts(DC)
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time @ FL	36mS @ 230VAC
	32ms@115VAC
Setup, Rise Time @ FL	500ms, 60ms/230VAC
	70ms, 60ms/115VAC
Over Current Protection	105~160% rated output power
	Constant current limit, auto recover
Over Voltage Protection	See Selection Chart
	Shut down o/p voltage, re-power
Over Temperature Protection	See Selection Chart
	Shut down o/p voltage, auto recover
DC Voltage Adjust	See Selection Chart

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

GENERAL SPECIFICATIONS

Safety	UL508
	TUV EN60950-1 approved
	UL60950-1
Insulation Resistance	≥ 100MΩ @ 500VDC
EMI	Compliance to EN55011
	EN55022B (CISPR22B)
Harmonic Current	Compliance to EN61000-3-2,-3
Isolation	3000VAC Input - Output
	1500VAC Input - Ground
	500VAC Output - Ground
EMS	Compliance to
	EN61000-4-2, 3, 4, 5, 6, 8, 11,
	ENV50204, EN55024,
	EN61000-6-2, EN61204-3,
	heavy 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 to +90% RH non cond
Temperature Coefficient	0.03% / °C (0-50°C)
MTBF	136.8KHrs, MIL-HDBK-217F(25°C
Vibration	10~500Hz, 2G10min./1cycle, period
	for 60min. each along X, Y, Z axes
Mounting:	Compliance to IEC60068-2-6

PHYSICAL SPECIFICATIONS

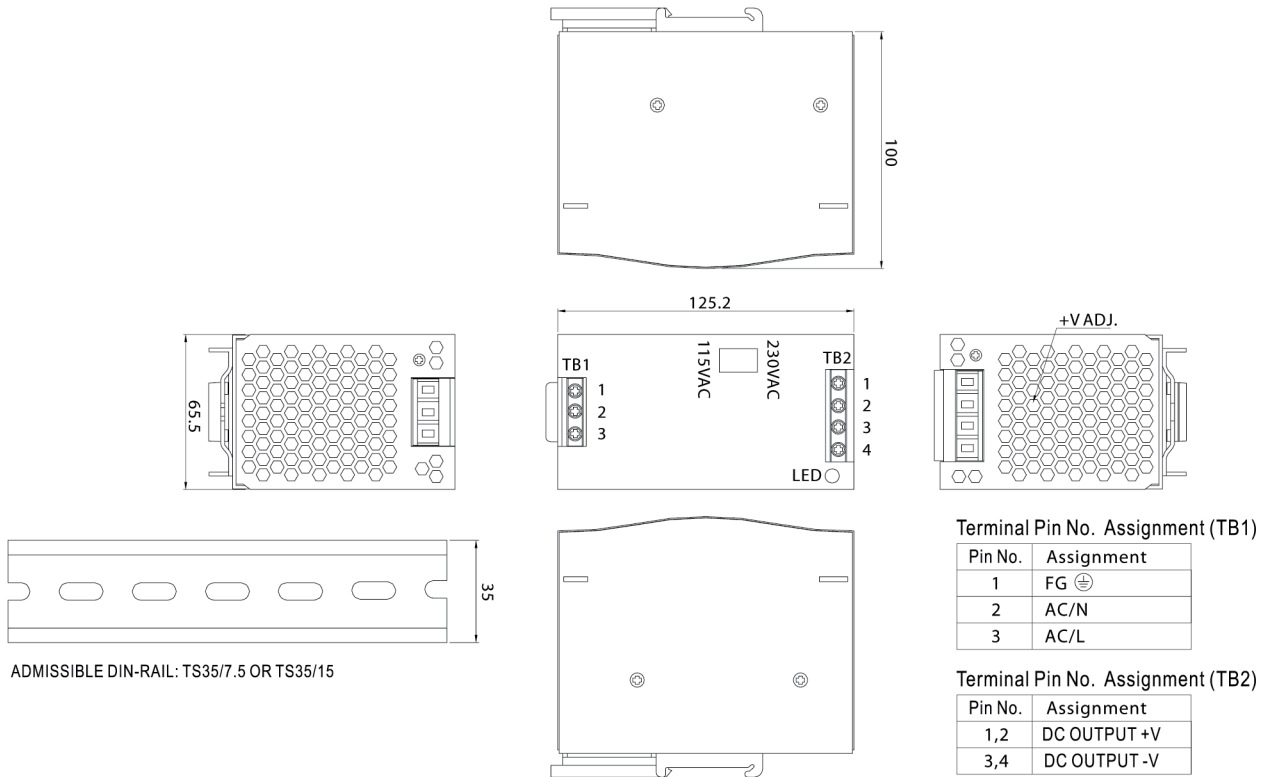
Size	
Millimeters	65.5 x 125.2 x 100
Inches	2.58" x 4.93" x 3.94"
Weight	27.87 oz (790g)

NOTE

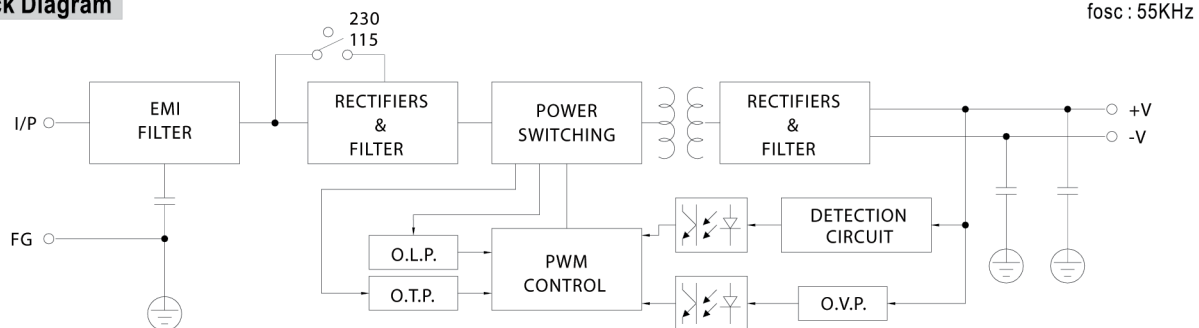
1. Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.

■ Mechanical Specification

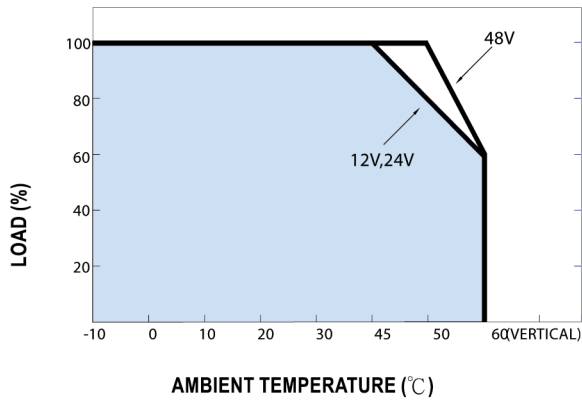
Case No. 921A Unit:mm



■ Block Diagram



■ Derating Curve



■ Static Characteristics (24V)

