



120W Single Output Industrial DIN RAIL Power Supply

DR-120 series

**■ Features :**

- AC input range selectable by switch
- 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
- UL 508(industrial control equipment)approved
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at 55KHz
- 3 years warranty

**SPECIFICATION**

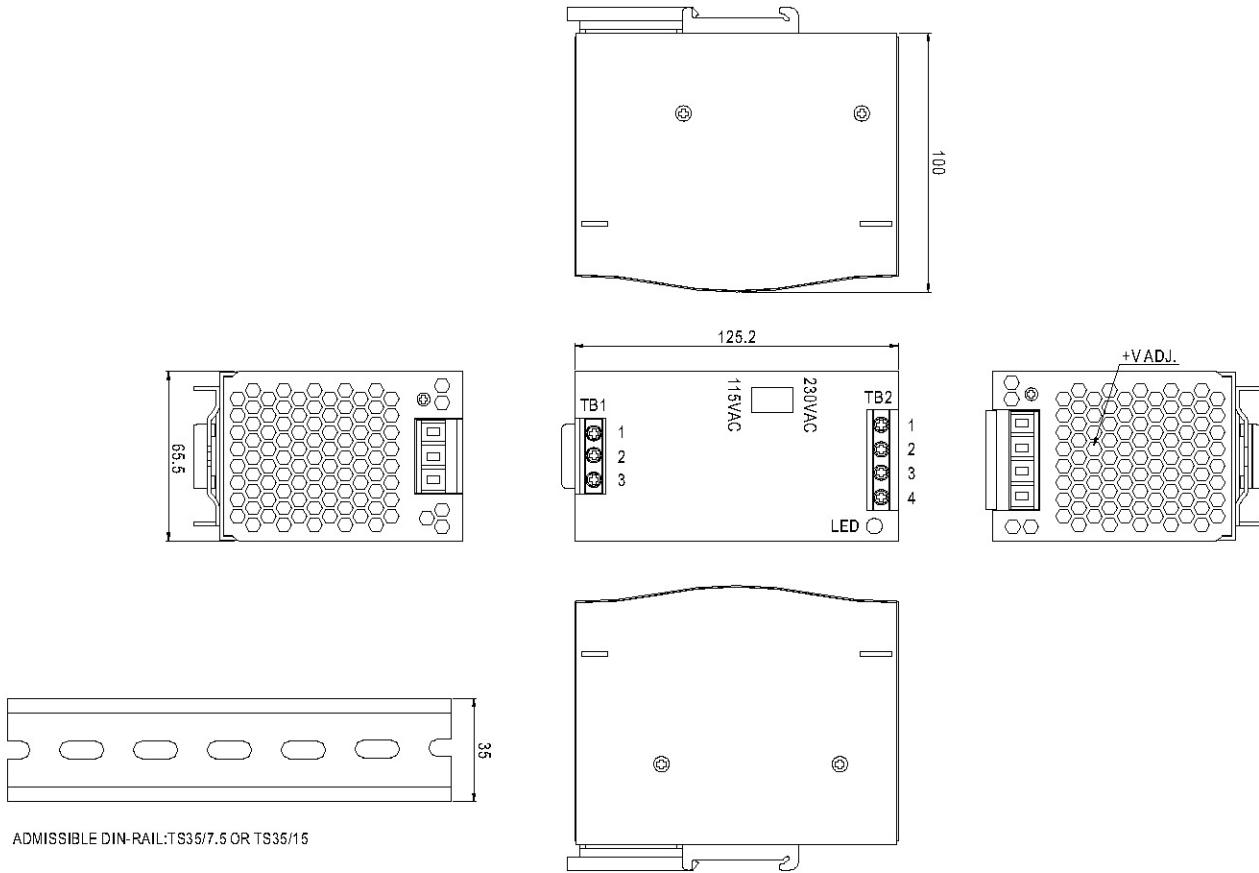
MODEL	282-518		282-502
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	10A	5A
	CURRENT RANGE	0 ~ 10A	0 ~ 5A
	RATED POWER	120W	120W
	RIPLLE & NOISE (max.) Note.2	80mVp-p	80mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE TIME	500ms, 70ms/230VAC 500ms, 70ms/115VAC at full load	
INPUT	HOLD UP TIME (Typ.)	36ms/230VAC 32ms/115VAC at full load	
	VOLTAGE RANGE	88 ~ 132VAC/176 ~ 264VAC by switch	248 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	80%	84%
	AC CURRENT (Typ.)	2.6A/115VAC 1.6A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC	
PROTECTION	LEAKAGE CURRENT	<3.5mA / 240VAC	
	OVERLOAD	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed	
	OVER VOLTAGE	15 ~ 16.5V	29 ~ 33V
	OVER TEMPERATURE	85°C±5°C (TSW1)	90°C±5°C(TSW1)
ENVIRONMENT		Protection type : Shut down o/p voltage, re-power on to recover	
		85°C±5°C (TSW1)	
		90°C±5°C(TSW1)	
		90°C±5°C(TSW1)	
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down	
SAFETY & EMC (Note 4)	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	
OTHERS	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950-1 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC	
	EMI CONDUCTION & RADIATION	Compliance to EN55011,EN55022 (CISPR22) Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	
NOTE	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A	
	MTBF	136.8Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	65.5*125.2*100mm (W*H*D)	
PACKING		0.79Kg; 20pcs/16.5Kg/1.29CUFT	
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.			

120W Single Output Industrial DIN RAIL Power Supply

DR-120 series

■ Mechanical Specification

Case No. 921A Unit:mm



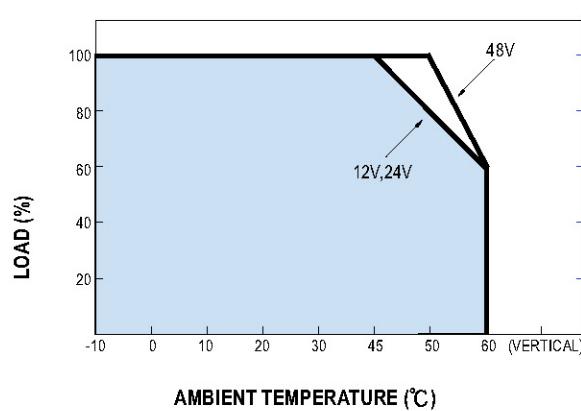
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG
2	AC/N
3	AC/L

Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

■ Derating Curve



■ Static Characteristics (24V)

