

120W Single Output Industrial DIN RAIL Power Supply

DR-120 series



■ Features :

- AC input range selectable by switch
- Protections: Short circuit/Over load/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

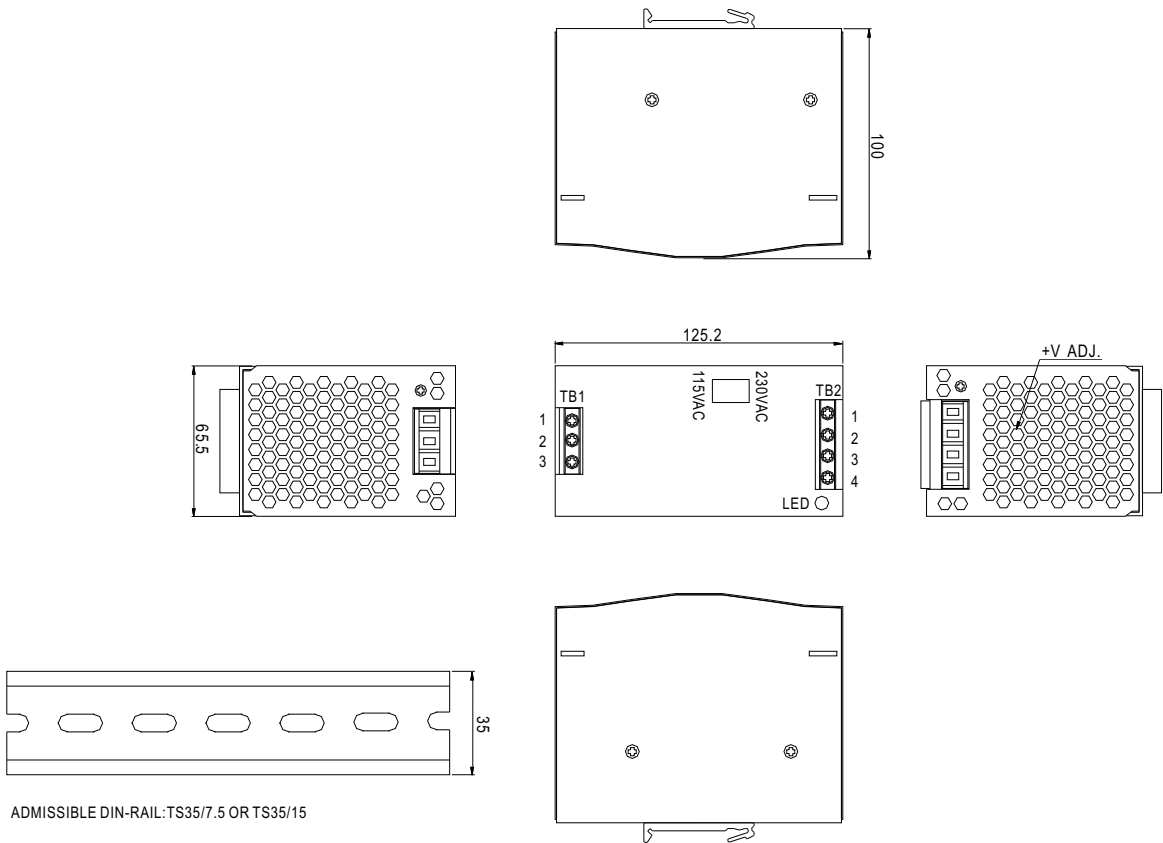


SPECIFICATION

MODEL	DR-120-12		DR-120-24		DR-120-48	
OUTPUT	DC VOLTAGE	12V		24V		48V
	RATED CURRENT	10A		5A		2.5A
	CURRENT RANGE	0 ~ 10A		0 ~ 5A		0 ~ 2.5A
	RATED POWER	120W		120W		120W
	RIPPLE & NOISE (max.) Note.2	80mVp-p		80mVp-p		100mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 14V		24 ~ 28V		48 ~ 53V
	VOLTAGE TOLERANCE Note.3	±2.0%		±1.0%		±1.0%
	LINE REGULATION	±0.5%		±0.5%		±0.5%
	LOAD REGULATION	±1.0%		±1.0%		±1.0%
	SETUP, RISE, HOLD TIME	500ms, 70ms, 30ms/230VAC		500ms, 70ms, 30ms/115VAC at full load		
INPUT	VOLTAGE RANGE	88 ~ 132VAC/176 ~ 264VAC by switch		248 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	80%		84%		85%
	AC CURRENT	3.3A/115VAC 2A/230VAC				
	INRUSH CURRENT (max.)	COLD START 30A/115VAC 60A/230VAC				
	LEAKAGE CURRENT	<3.5mA / 240VAC				
PROTECTION	OVER LOAD	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed				
	OVER VOLTAGE	15 ~ 16.5V		29 ~ 33V		58 ~ 65V
		Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	85℃±5℃ (TSW1)		90℃±5℃ (TSW1)		90℃±5℃ (TSW1)
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down				
ENVIRONMENT	WORKING TEMP.	-10 ~ +60℃ (Refer to output load derating curve)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950 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				
	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				
OTHERS	MTBF	136.8Khrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	65.5*125.2*100mm (W*H*D)				
	PACKING	0.79Kg; 20pcs/16.5Kg/1.1CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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.					

Mechanical Specification

Case No. 921 Unit:mm



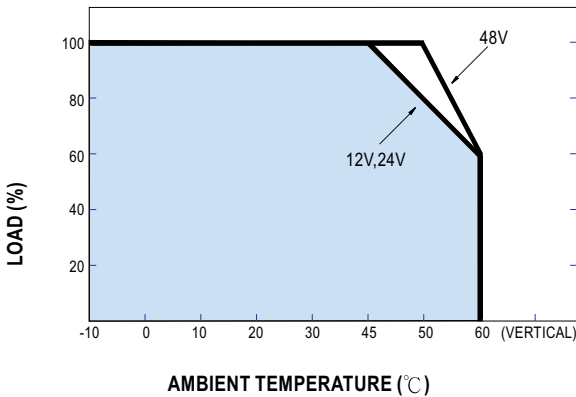
Terminal Pin. No Assignment (TB1)

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

Terminal Pin. No Assignment (TB2)

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

Output Derating



Static Characteristics (24V)

