



# 120W Single Output Industrial DIN RAIL Power Supply

# DRH-120 series



## ■ Features :

- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty

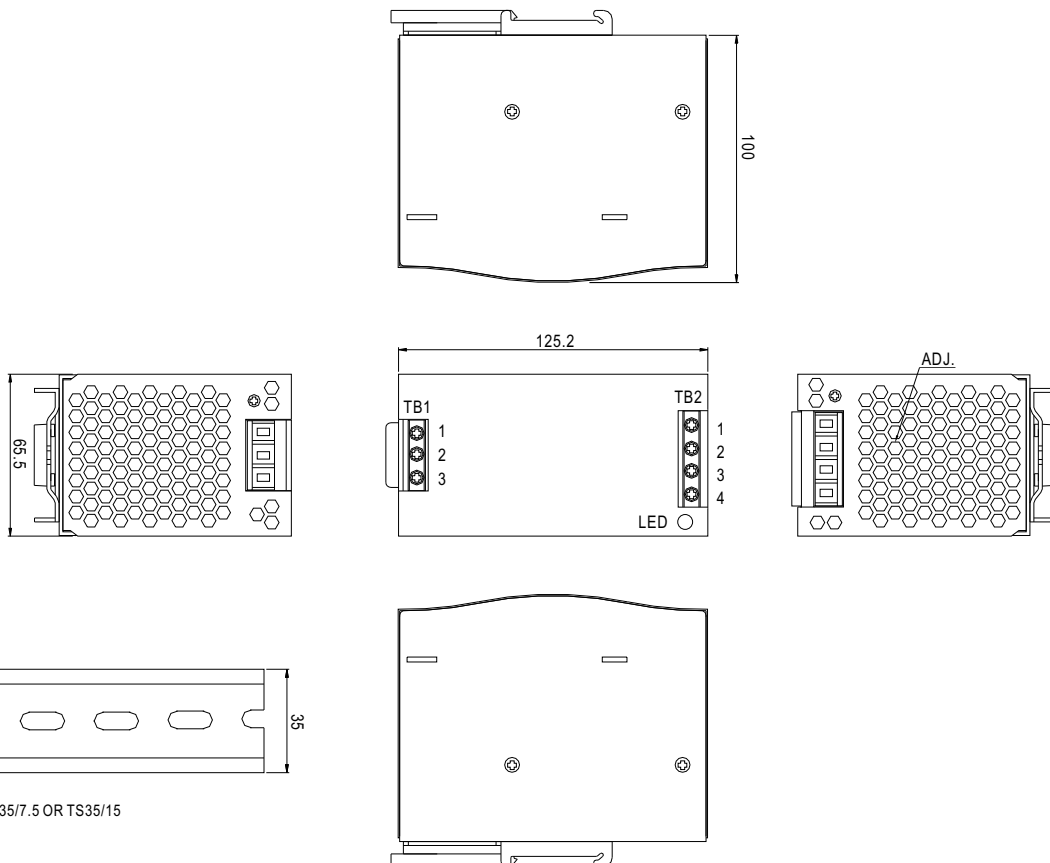
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## SPECIFICATION

MODEL		DRH-120-24		DRH-120-48	
OUTPUT	DC VOLTAGE	24V		48V	
	RATED CURRENT	5A		2.5A	
	CURRENT RANGE	0 ~ 5A		0 ~2.5A	
	RATED POWER	120W		120W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p		80mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V		48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±1.0%		±1.0%	
	LINE REGULATION	±0.5%		±0.5%	
	LOAD REGULATION	±0.5%		±0.5%	
	SETUP, RISE, HOLD UP TIME	1700ms, 120ms, 16ms/400VAC		1000ms, 120ms, 30ms/500VAC at full load	
INPUT	VOLTAGE RANGE	340 ~ 550VAC		480 ~ 780VDC	
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	85%		86%	
	AC CURRENT	0.65A/400VAC		0.6A/500VAC	
	INRUSH CURRENT (max.)	COLD START 50A			
	LEAKAGE CURRENT	<3.5mA / 530VAC			
PROTECTION	OVERLOAD	105 ~ 160% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	30 ~ 36V		59 ~ 66V	
		Protection type : Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	85℃±5℃ (TSW) Detect on heatsink of power switch Protection type : Shut down o/p voltage, recovers automatically after temperature goes down			
ENVIRONMENT	WORKING TEMP.	-20 ~ +60℃ (Refer to output load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃ )			
	VIBRATION	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting clip: Compliance to IEC60068-2-6			
SAFETY & EMC (Note 4)	SAFETY STANDARDS	IEC60950-1 CB Approved by SIQ			
	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 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B			
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A			
OTHERS	MTBF	178.7Khrs min. MIL-HDBK-217F (25℃ )			
	DIMENSION	65.5*125.2*100mm (W*H*D)			
	PACKING	0.75Kg; 20pcs/16Kg/1.36CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 400VAC 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.921A Unit:mm



ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG $\oplus$
2	AC/N(L2)
3	AC/L(L1)

Terminal Pin No. Assignment (TB2)

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

## Derating Curve

