DRH-120 Series

120W Single Output Industrial DIN Rail Power Supply

Case No: 8016GU
65.5 x 125.2 x 100mm

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
- Fixed switching frequency at 70Khz
- 3 years warranty

Specification

INPUT	**Voltage**	340V~550VAC 480~780VAC	
	Frequency	47 ~ 63 Hz	
	AC Current (Typ.)	0.65A/400VAC 0.6A/500VAC	
	Inrush Current (Typ.)	Cold start 50A	
	Leakage Current	<3.5mA/530VAC	
	Efficiency	85%	86%
OUTPUT	**MODEL No.**	**DRH-120-24**	**DRH-120-48**
	Voltage	24V	48V
	Rated Current	5A	2.5A
	Current Range	0~5A	0~2.5A
	Rated Power	120W	120W
	Ripple Noise MAX.	80mVp-p	80mVp-p
	Voltage Adjustment Range	24 ~ 28V	48 ~ 55V
	Voltage Tolerance	± 1.0%	± 1.0%
	Line Regulation	± 0.5%	± 0.5%
	Load Regulation	± 0.5%	± 0.5%
	Setup Rise Time	1700ms, 120ms, 16ms/400VAC	1000ms, 120ms, 30ms/500VAC at full load
PROTECTION	**Over Load**	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 onto recover	
	Over Temperature	85°C±5°C (TSW: detect on heatsink of power switch)	
		Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	**Working Temperature**	-20 ~ +60°C (Refer to "Derating Curve")	
	Working Humidity	20 ~ 90% RH non-condensing	
	Storage Temp., Humidity	-40 ~ +85°C, 10-95%RH	
	Temp. Co-efficient	±0.03% / °C (0~50°C)	
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60 min. each along X, Y, Z axes; Mounting: compliance to IEC60068-2-6	
SAFETY & EMC	**Safety Standards**	UL60950-1 approved, IEC60950-1 CB approved by SIQ	
	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
	Isolation Resistance	I/P-OP I/P-FG, O/P-FG: 100M Ohms/500Vdc/25°C/70% RH	
	EMC Emission	Compliance to EN55011 (CISPR11), EN55032 (CISPR32), EN61204-3 Class B	
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A	
OTHERS	**M.T.B.F.**	178.7K hrs min. MIL-HDBK-217F (25°C)	
	Packaging	0.75Kg; 20pcs/16Kg/1.29CUFT	

1. All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature.
2. Ripple and 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 as a component which will be installed with final equipment. The final equipment must re-confirmed that it still meets EMC Directives.

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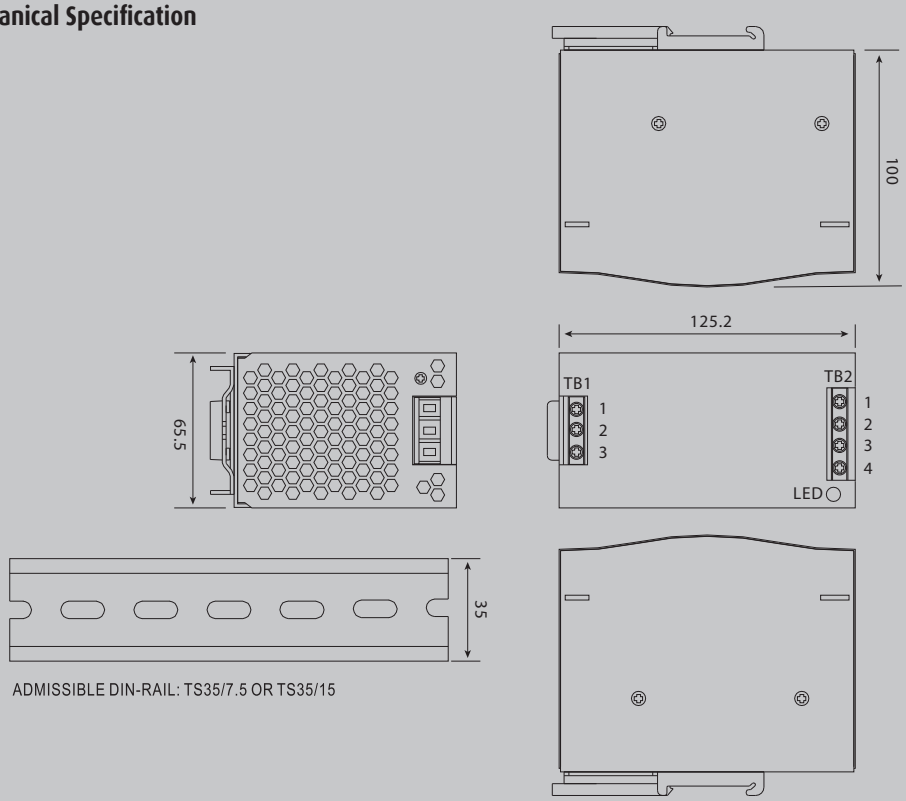
Mechanical Specification

Case No.921A Unit:mm



Terminal Pin No. Assignment (TB1)

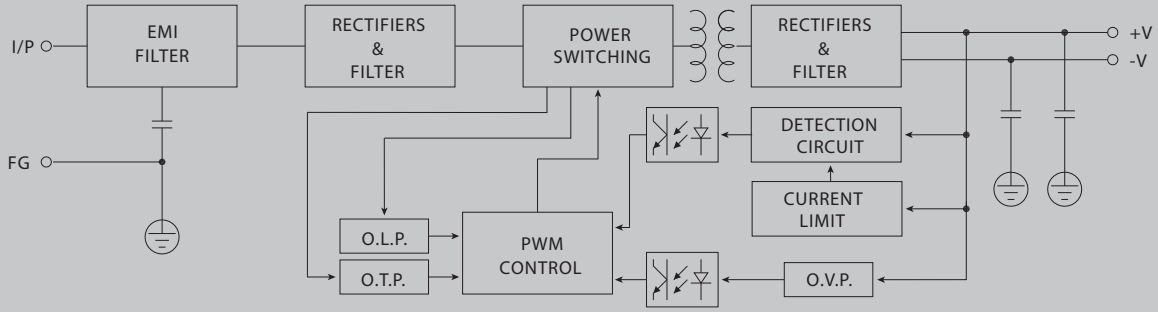
Pin No.	Assignment
1	FG ⏚
2	AC/L2
3	AC/L1

Terminal Pin No. Assignment (TB2)

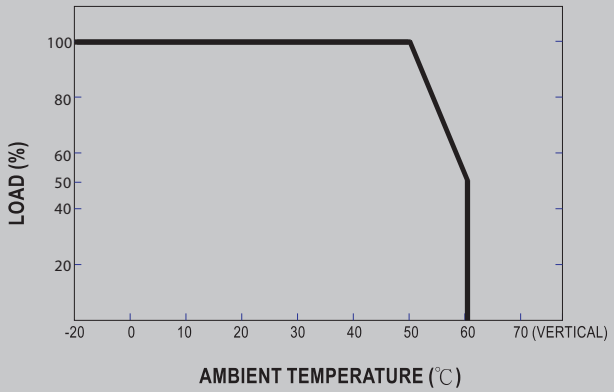
Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

Block Diagram

fosc : 70KHz



Derating Curve



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