

DRT-240 Series

240W Three Phase Industrial DIN RAIL Power Supply



Features

- Three-Phase AC 340~550V wide range input
- High efficiency 89%
- 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
- UL508 (Industrial control equipment) approved
- EN61000-6-2 (EN50082-2) industria immunity level
- 100% full load burn-in test
- Fixed switching frequency at 70KHz



Specification

INPUT	Voltage	Three phase 340~550VAC (Dual phase operation possible) 480~780VDC	
	Frequency	47 ----- 63 Hz	
	Current	<0.95A@400VAC; 0.75A@500VAC input, full load	
	Inrush Current	Cold start at 50A	
	Leakage Current	<3.5mA@530VAC input	
OUTPUT	MODEL No.	DRT-240-24	DRT-240-48
	Voltage	24V	48V
	Min Load	0A	0A
	Max Load	10A	5A
	Output Tolerance	± 1%	± 1%
	Line Regulation	± 0.5%	± 0.5%
	Load Regulation	± 0.5%	± 0.5%
	Ripple Noise MAX.	80mV	80mV
	Efficiency (TYP.)	89%	
	Power	240W	240W
PROTECTION	Over Voltage	30~36V	59~66V
	Over Temperature	Shutdown and latch off, repower on to recover	
	Over Load	105~150% rated output power; Constant current limiting, recover automatically after fault condition is removed	
ELEC. CHAR.	Rise Time	<40mS@ 400~500VAC at full load	
	Hold up Time	>20mS@ 400~500VAC at full load	
	Setup Time	<1.2Sec @ 400VAC; 0.8Sec @ 500VAC	
ENVIRONMENT	Temperature	Operating: -20 ~ +70°C ; Storage: -40~ +85°C	
	Humidity	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% RH (non condensing)	
SAFETY	Withstand Voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute	
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC	
	Safety Standard	UL60950-1; TUV EN60950-1 Approved	
EMC	EMI	EN55022; EN61000-3-2,3; EN61204-3 class B	
	EMS	EN61000-4-2,3,4,5,6,8,11; EN61204-3; EN61000-6-2 (EN50082-2), heavy industry level, criteria A	
OTHERS	Cooling	Natural cooling	
	M.T.B.F.	114.6K hrs min. MIL-HDBK-217F (°C)	
	Packing	1.3Kg; 12pcs/16.6Kg/1.29 CUFT	

1 All measurements which not mentioned are based on 230VAC input, output Max at ambient 25°C / 70%RH

2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminates 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 of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.

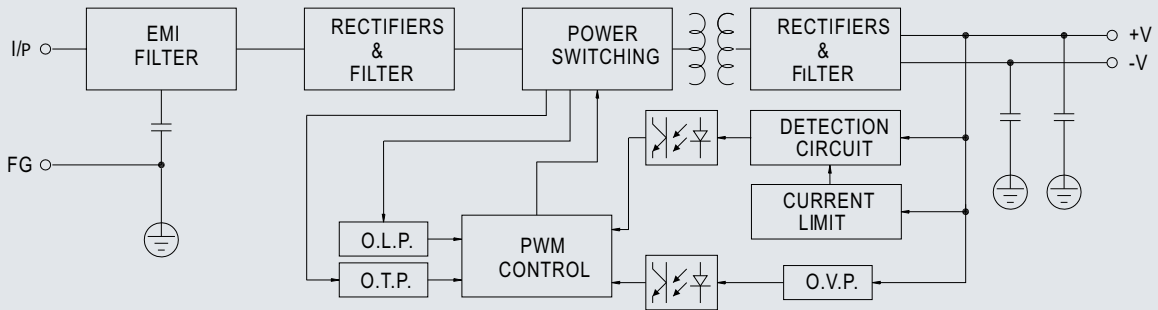
5 Dual phase operation; derating of 20% is required

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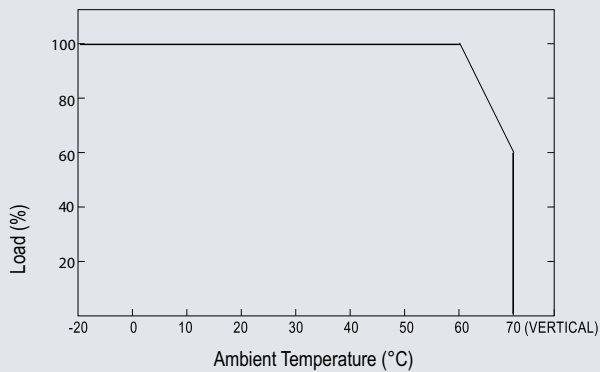
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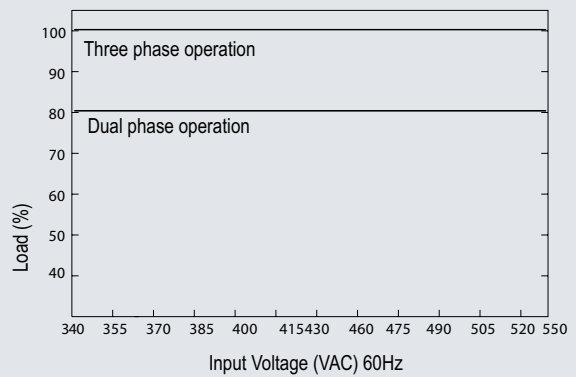
Block Diagram



De-Rating Curve



Static Characteristics



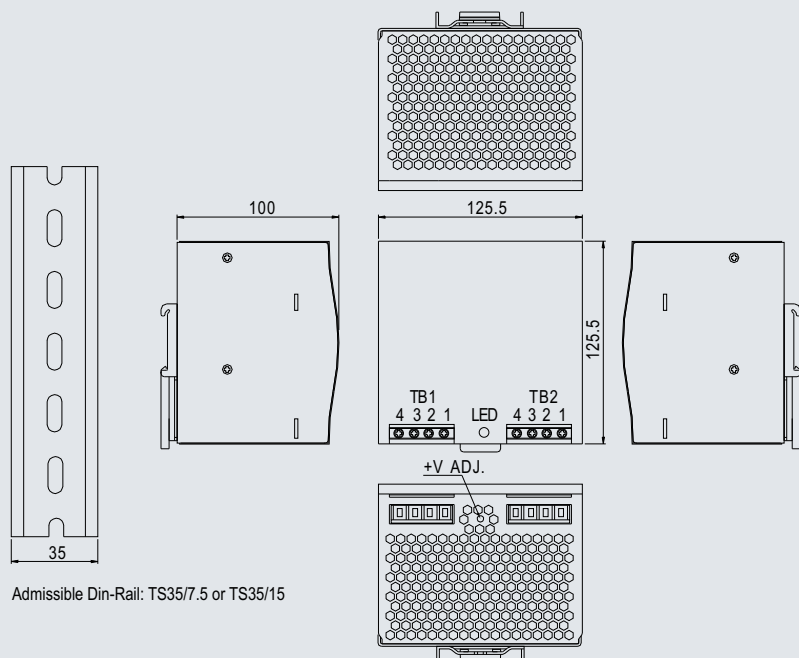
Dimensions

Terminal Pin. No Assignment:

Pin No.	Assignment
1	FG
2	AC/L3
3	AC/L2
4	AC/L1

Terminal Pin. No Assignment:

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



Admissible Din-Rail: TS35/7.5 or TS35/15