

DRP-480 Series

480W Single Output Industrial DIN Rail Power Supply



Case No: 8017HX
227 x 125.2 x 100 mm

Features

- Built-in passive PFC function compliance to EN61000-3-2
- High efficiency 89% and low dissipation
- 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) industrial immunity level
- 100% full load burn-in test



Specification

INPUT	Voltage	180V ~ 264VAC universal full range or 250V ~ 370VDC.	
	Frequency	47 ----- 63 Hz	
	Current	<4A@230VAC input, full load	
	Inrush Current	40A@230VAC; Cold start at 50A	
	Leakage Current	3.5mA@240VAC	
OUTPUT	MODEL No.	DRP-480-24	DRP-480-48
	Voltage	24V	48V
	Min Load	0A	0A
	Max Load	20A	10A
	Output Tolerance	± 1%	± 1%
	Line Regulation	± 0.5%	± 0.5%
	Load Regulation	± 1%	± 1%
	Ripple Noise MAX.	120mV	120mV
	Efficiency (TYP.)	89%	
	Power	480W	480W
PROTECTION	Over Voltage	30~36V	54~60V
	Over Temperature	Shutdown o/p voltage, re-power on to recover	
	Over Load	100°C ±5°C(TSW) detect on heatsink of power switch Shut down o/p voltage, recovers automatically after temperature goes down	
	Rise Time	105~150% rated output power; Constant current limiting, recovers automatically after fault condition is removed	
ELEC. CHAR.	Hold up Time	<40mS@ 230VAC at full load	
	Setup Time	>16mS@ 230VAC at full load	
	Temperature	<1.2 Sec @ 230VAC	
ENVIRONMENT	Temperature	Operating: -20 ~ +70°C ; Storage: -20~ +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	UL508; UL60950-1; TUV; EN60950-1 Approved	
EMC	EMI	EN55022; EN61000-3-2,3	
	EMS	EN61000-4-2,3,4,5,6,8,11; EN61000-6-2 (EN50082-2)	
OTHERS	Cooling	Natural cooling	
	M.T.B.F.	180.9K hrs min. MIL-HDBK-217F (25°C)	
	Packing	2.4Kg; 6pcs/15Kg/1.75 CUFT	

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 terminates with a 0.1uf & 47uf parallel capacitor

3 Tolerance: Includes set up tolerance, line regulation and load regulation

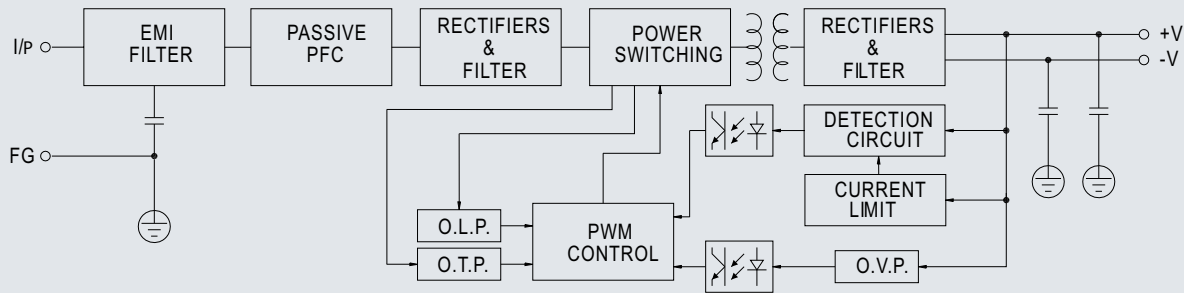
4 The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.

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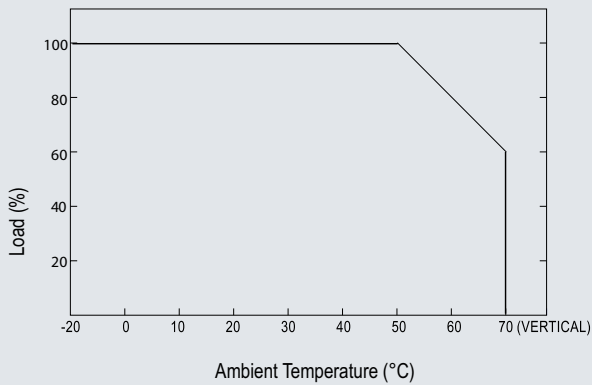
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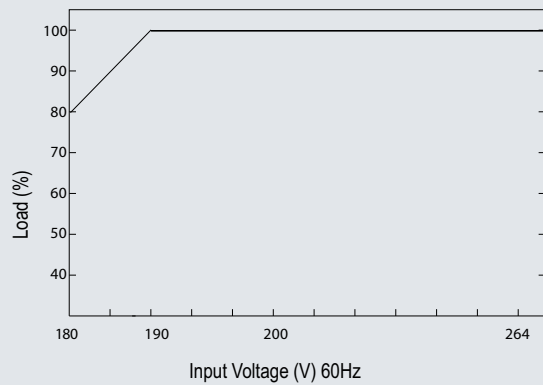
Block Diagram



De-Rating Curve



Output Derating Vs. Input Voltage



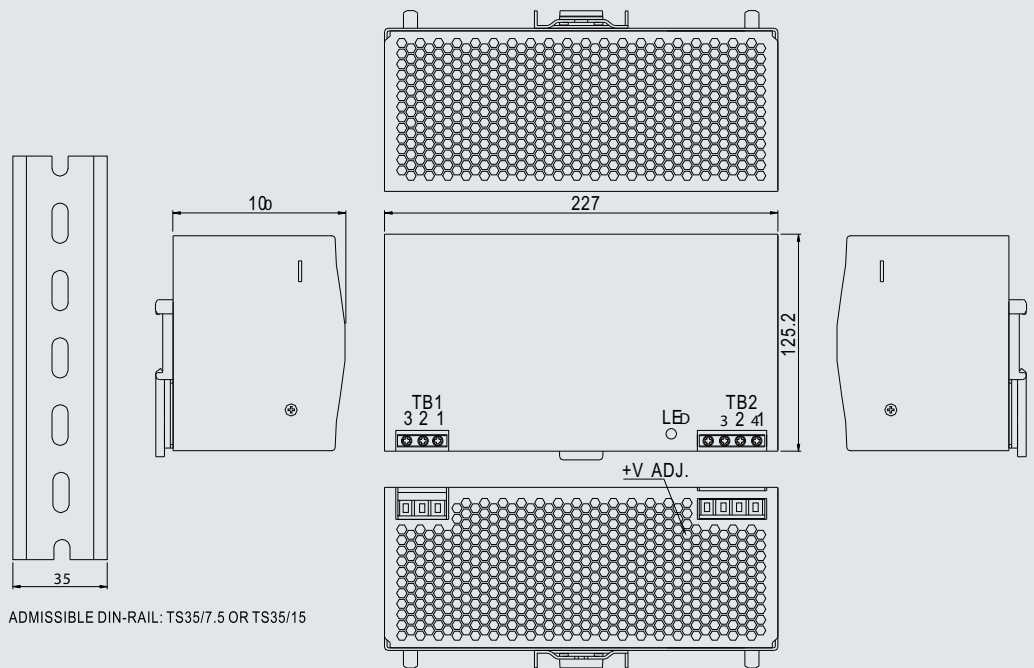
Dimensions

Terminal Pin. No Assignment:
(TB1)

Pin No.	Assignment
1	AC/L (DC+)
2	AC/N (DC-)
3	FG

Terminal Pin. No Assignment:
(TB2)

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



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