



Technical Data Sheet
DIN RAIL Power Supply
AC-to-DC transformer
480W 24V Single Output

UNIT CODE	DESCRIPTION
DIN RP-480W-24V	480 Watt, 24V, Single Output DIN RAIL Power Supply with PFC Function

SPECIFICATIONS		
Input	Output	Agency approvals
Universal AC Input	+24VDC@0-20A	UL/CUL/TUV/CB/CE

Features at a Glance:

- Low cost, high reliability
- High efficiency 89% and low power dissipation
- Universal AC input / Full range
- UL508 listed (industrial control equipment)
- PF>0.98@115VAC, >0.95@230VAC
- Installed on DIN rail TS35 / 7.5 or 15
- Protections: Short circuit / Over load /
Over voltage / Over temp.
- Fixed switching frequency at 100KHz
- LED indicator for power on
- Cooling by natural free air convection
- 100% full load burn-in test
- 3 year warranty
- Safety standards: UL508, UL60950-1, TUV
EN60950-1 approved
- EMC standards: EN55022 class B, EN61000-3-2,3,
EN61000-6-2, EN61000-4-2,3,4,5,6,8,11 and
ENV50204
- MTBF hours: 187.9K hours *MIL-HDBK-217F (25)*
- Case: 930
- Weight: 5.2lbs (2.4 Kgs)
- Dimensions: 8.93" W x 4.9" H x 3.9" D
227mm*125.2mm*100mm (W*H*D)



DIN RP-480W series are 480 Watt Single Output DIN rail type AC-to-DC type power supplies (transformers) designed for the fast growing DIN rail segment. Universal AC input means that they will work anywhere and with built-in passive PFC function your componets will work flawlessly.

What we most like is that these units can work with natural convection cooling only in ambients over +55°C. This significantly increases the reliability and lifetime of the power supply in electronics enclosures and they compliment our [Powercool enclosure air conditioners](#) in telecom, factory automation and electro-mechanical applications with high power demand

Pricing:	1 + \$ 338.00
	10+ 307.70
	25+ 289.25
ELECTRACOO.COM	



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■ Features :

- AC input range selectable by switch
- Built-in passive PFC function compliance to EN61000-3-2
- High efficiency 89% and low dissipation
- Protections: Short circuit/Over load/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
- UL 508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty

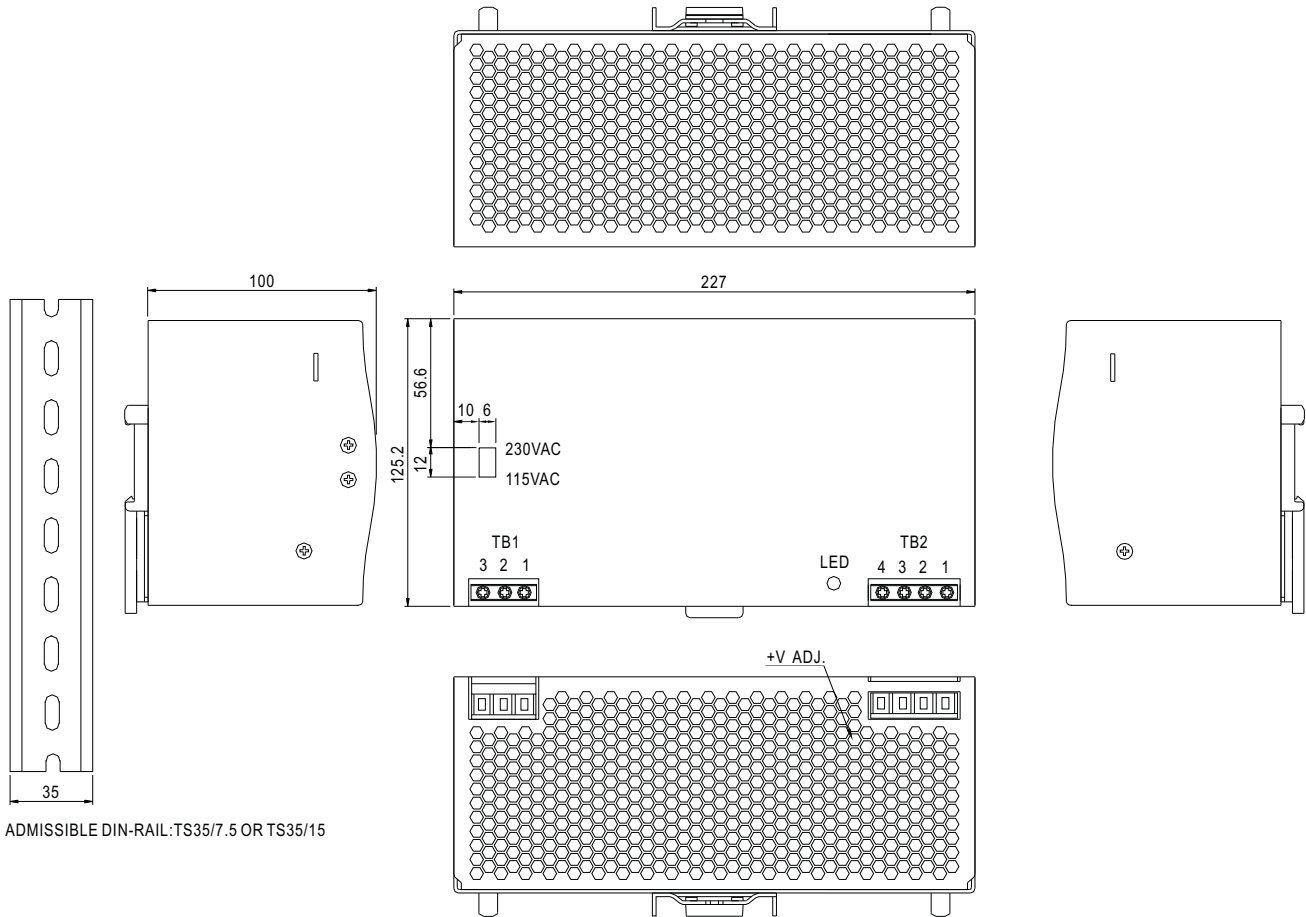


SPECIFICATION

MODEL		DRP-480S-24	DRP-480S-48
OUTPUT	DC VOLTAGE	24V	48V
	RATED CURRENT	20A	10A
	CURRENT RANGE	0 ~ 20A	0 ~ 10A
	RATED POWER	480W	480W
	RIPPLE & NOISE (max.) Note.2	120mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
SETUP, RISE, HOLD TIME		1200ms, 40ms, 20ms/230VAC, 115VAC at full load	
INPUT	VOLTAGE RANGE	90 ~ 132VAC/180 ~ 264VAC by switch 254 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR	≥ 0.7/230VAC only	
	EFFICIENCY (Typ.)	89%	
	AC CURRENT	11A/115VAC 4A/230VAC	
	INRUSH CURRENT (max.)	COLD START 30A/115VAC 50A/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	30 ~ 36V	59 ~ 66V
	OVER TEMPERATURE	100°C ±5°C (TSW : Detect on heatsink of power switch) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950-1 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 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	
	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	187.9Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	227*125.2*100mm (W*H*D)	
	PACKING	2.6Kg; 6pcs / 16.6Kg / 1.75CUFT	
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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.</p>		

Mechanical Specification

Case No.930 Unit:mm



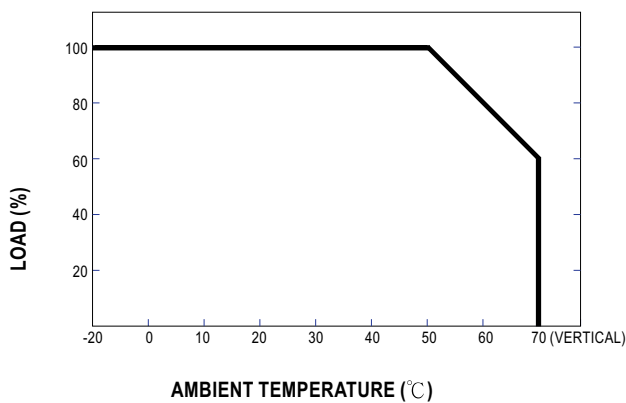
TB1 Terminal Pin. No Assignment

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

TB2 Terminal Pin. No Assignment

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

Derating Curve



Output Derating VS Input Voltage

