



UNIT CODE	DESCRIPTION
DIN RP-240W-48V	240 Watt, 48V, Single Output DIN RAIL Power Supply with PFC Function

SPECIFICATIONS		
Input	Output	Agency approvals
Universal AC Input	+48VDC@0-5A	UL / CUL / TUV / CB / CE

Features at a Glance:

- Low cost, high reliability
- Universal AC input / Full range
85~264VAC; 120~370VDC
- UL508 listed (industrial control equipment)
Approved
- 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 free air convection
- 100% full load burn-in test
- 3 years 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: 105.5K hours *MIL-HDBK-217F (25)*
- Case: 922
- Weight: 2.4lbs (1.2 Kgs)
- Dimensions: 3.9" L x 4.9" W x 4.9" H
125.5L X 125.2H X 100D mm



DRP-240 series are 240W Single Output DIN rail type switchers designed for the fast growing demand within the 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 moderate power demand.

Pricing: 1+ \$ 234.65
 10+ 211.45
 25+ 190.30

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240W Single Output Industrial DIN RAIL Power Supply

DRP-240 series



■ Features :

- Universal AC input / Full range
- Built in active PFC function, PF>0.95
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at 100KHz
- 3 years warranty

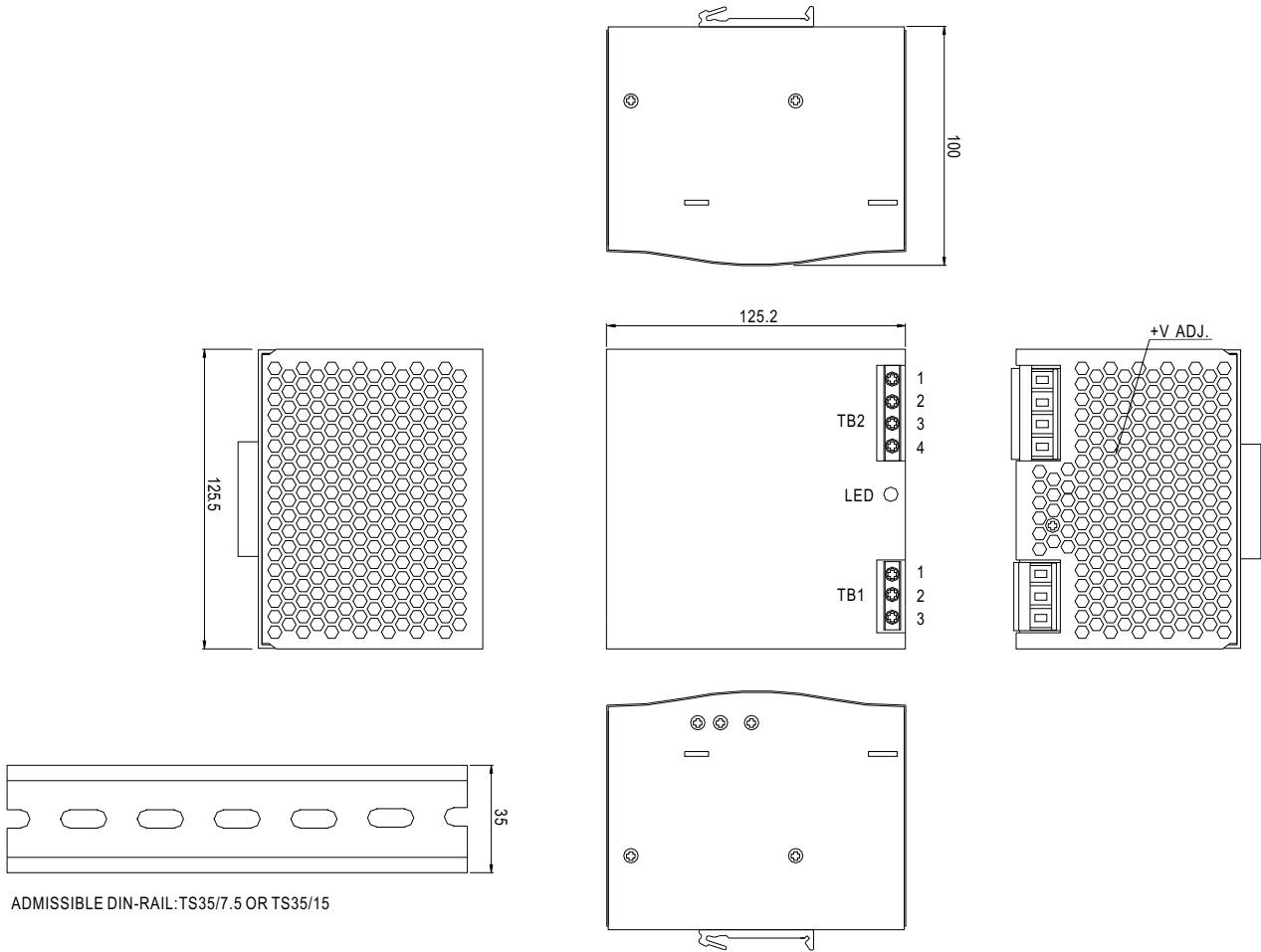


SPECIFICATION

MODEL	DRP-240-24	DRP-240-48	
OUTPUT	DC VOLTAGE	24V	48V
	RATED CURRENT	10A	5A
	CURRENT RANGE	0 ~ 10A	0 ~ 5A
	RATED POWER	240W	240W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 53V
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
SETUP, RISE, HOLD TIME	800ms, 40ms, 20ms/230VAC 800ms, 40ms, 20ms/115VAC at full load		
INPUT	VOLTAGE RANGE Note.5	85 ~ 264VAC 120 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR	PF>0.95/230VAC	PF>0.98/115VAC at full load
	EFFICIENCY (Typ.)	84%	85%
	AC CURRENT	3.5A/115VAC	1.8A/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	54 ~ 60V
	OVER TEMPERATURE	100°C ±5°C (TSW1) Detect on heat sink of power transistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	WORKING TEMP.	-10 ~ +70°C (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-20 ~ +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, EN55022 (CISPR22) Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2, -3	
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A	
	MTBF	105.5Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	125.5*125.2*100mm (W*H*D)	
NOTE	PACKING	1.2Kg; 12pcs/15.5Kg/1.2CUFT	
		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 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. 5. Derating may be needed under low input voltages. Please check the derating curve for more details.	

Mechanical Specification

Case No. 922 Unit:mm



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

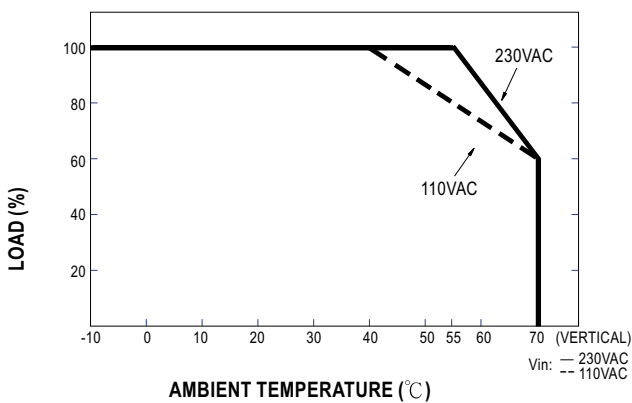
Terminal Pin. No Assignment (TB1)

Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

Terminal Pin. No Assignment (TB2)

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

Output Derating



Output derating VS input voltage

