



**PowerInverter**  
Líderes en transformaciones de energía

RAIL Power Supply

**DRP-240 series**

[www.powerinverter.cl](http://www.powerinverter.cl)

**Features :**

- Universal AC input / Full range
- Built in active PFC function
- Protections: Short circuit / Overload / 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 100uHz
- 3 months warranty

**ESPECIFICACION**



MODEL	DRP-240-24	DRP-240-48
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	10A
	CURRENT RANGE	0 ~ 10A
	RATED POWER	240W
	RIPPLE & NOISE (max.) Note.2	80mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V
	VOLTAGE TOLERANCE Note.3	1.0%
	LINE REGULATION	0.5%
	LOAD REGULATION	1.0%
	SETUP, RISE TIME	800ms, 40ms/230VAC      800ms, 40ms/115VAC at full load
INPUT	HOLD UP TIME (Typ.)	24ms/230VAC      24ms/115VAC at full load
	VOLTAGE RANGE Note.5	85 ~ 264VAC      120 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	0.96/230VAC      0.99/115VAC at full load
	EFFICIENCY (Typ.)	84%      85%
	AC CURRENT (Typ.)	2.8A/115VAC      1.4A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 27A/115VAC      45A/230VAC
PROTECTION	LEAKAGE CURRENT	<3.5mA / 240VAC
	OVERLOAD	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	30 ~ 36V      54 ~ 60V Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	100.5 (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 (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-20 ~ +85 / 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/ (°C ~ 50 °C)
SAFETY & EMC (Note 4)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
	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)
	PACKING	1.2Kg; 12pcs/15.5Kg/1.29CUFT
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 &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF &amp; 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> <p>5. Derating may be needed under low input voltages. Please check the derating curve for more details.</p>	



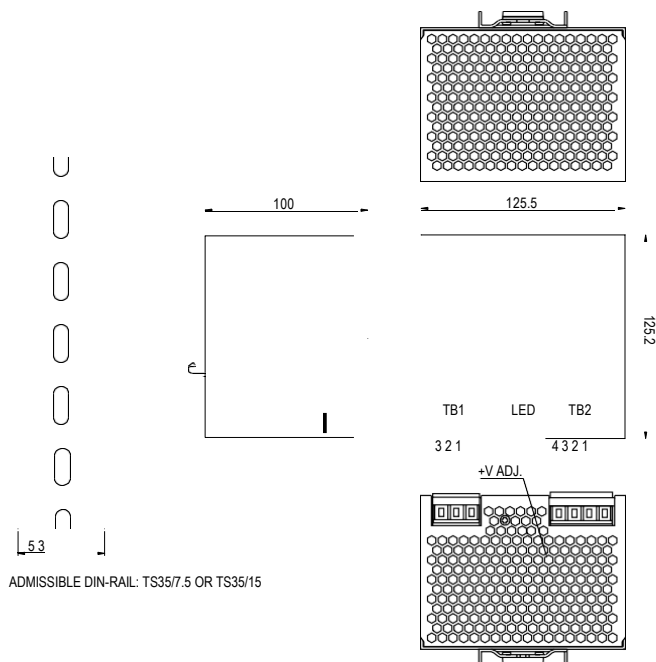
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## Mechanical Specification

Case No. 922A Unit:mm



### Terminal Pin Number Assignment (TB1)

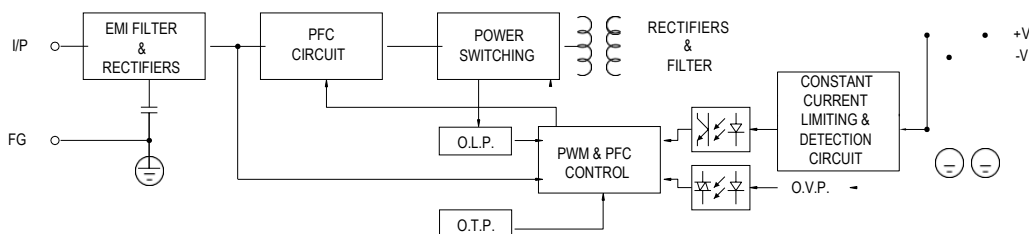
Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

### Terminal Pin Number Assignment (TB2)

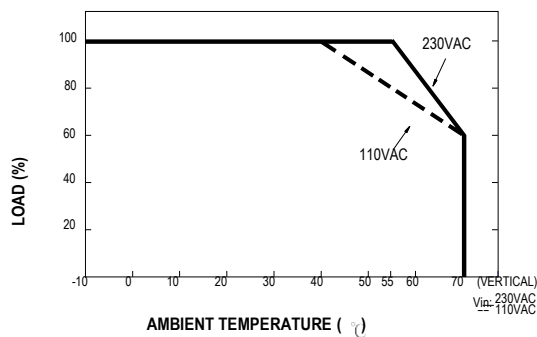
Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

## Block Diagram

fosc : 100KHz



## Derating Curve



## Output derating VS input voltage

