

PS-24-13 Power Supply



The PS-24-13 Power Supply consists of a 24 VDC single output power supply with PFC function and one North American standard power cord.

- Input Voltage: 88~264 VAC; 47~63 Hz
- Output Voltage: 24 VDC
- Maximum Output Current: 13 A
- Dimensions: 215 x 115 x 30 mm
- Power cords for the UK, EU, and Italy can be purchased separately.
- When ordered in conjunction with TE Technology coolers and temperature controllers the interconnection cables are included free of charge.
- See additional pages for base power supply specifications.



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■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC Fan with fan speed control function
- 1U low profile 30mm
- Optional conformal coating models (RSP-320-□CC)
- LED indicator for power on

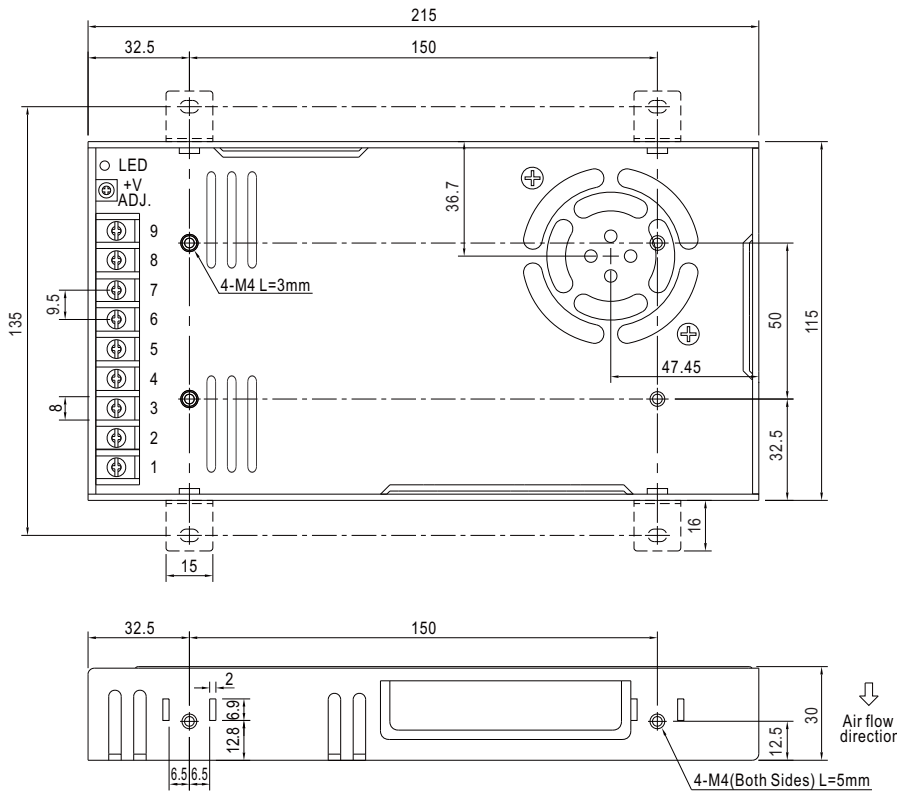


SPECIFICATION

MODEL		RSP-320-24
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	13.4A
	CURRENT RANGE	0 ~ 13.4A
	RATED POWER	321.6W
	RIPPLE & NOISE (max.) Note.2	150mVp-p
	VOLTAGE ADJ. RANGE	20 ~ 26.4V
	VOLTAGE TOLERANCE Note.3	± 1.0%
	LINE REGULATION	± 0.2%
	LOAD REGULATION	± 0.5%
	SETUP, RISE TIME	1500ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load
	HOLD UP TIME (Typ.)	8ms at full load 230VAC /115VAC
INPUT	VOLTAGE RANGE Note.4	88 ~ 264VAC 124 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load
	EFFICIENCY (Typ.)	89%
	AC CURRENT (Typ.)	4A/115VAC 2A/230VAC
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
PROTECTION	OVERLOAD	105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	27.6 ~ 32.4V Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")
ENVIRONMENT	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 5)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EAC TP TC 004, CCC GB4943.1 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020, GB9254 Class B, GB17625.1
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020
OTHERS	MTBF	206.5K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	215*115*30mm (L*W*H)
	PACKING	0.9Kg; 15pcs/14.5Kg/0.78CUFT
NOTE		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. Derating may be needed under low input voltages. Please check the derating curve for more details. 5. 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 6. For charging related applications, please consult Mean Well for details. 7. Strongly recommended that external output capacitance should not exceed 5000uF. (Only for: RSP-320-2.5/-3.3/-4/-5/-7.5/-12/-13.5/-15) 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

Case No.207A Unit:mm

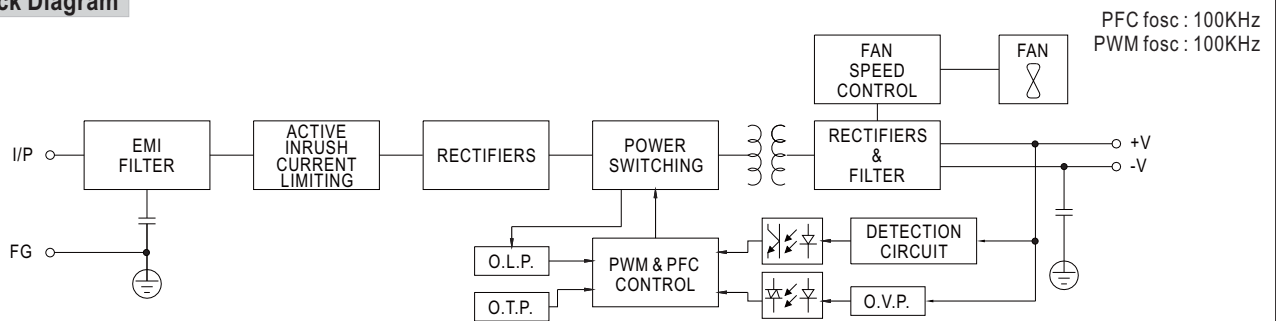
Mechanical Specification



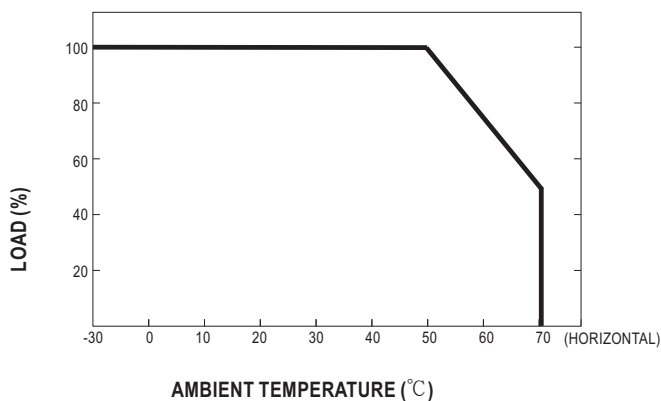
Terminal Pin No. Assignment :

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4~6	DC OUTPUT -V
2	AC/N	7~9	DC OUTPUT +V
3	FG $\perp$		

Block Diagram



Derating Curve



Static Characteristics

