

Professionally approved products.

Datasheet

RS 320.4W, 1 Output, Embedded Switch Mode Power Supply (SMPS), 12V dc, 26.74A

RS Stock number 770-4052



■ Features :

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

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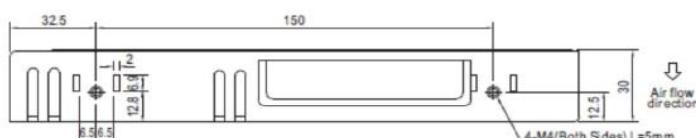
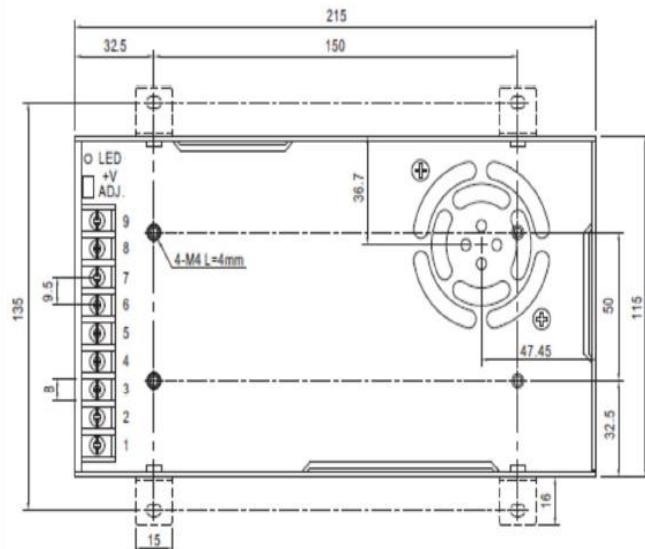
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MODEL	770-4033	770-4037	770-4046	770-4049	770-4043	770-4052
OUTPUT	DC VOLTAGE	2.5V	3.3V	4V	5V	7.5V
	RATED CURRENT	60A	60A	60A	60A	40A
	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 60A	0 ~ 60A	0 ~ 26.7A
	RATED POWER	150W	198W	240W	300W	320.4W
	ripple & noise (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	2.35 ~ 2.85V	2.97 ~ 3.8V	3.7 ~ 4.3V	4.5 ~ 5.5V	6 ~ 9V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.3%
	LOAD REGULATION	±1.5%	±1.5%	±1.0%	±1.0%	±0.5%
	SETUP, RISE TIME	1500ms, 50ms/230VAC	3000ms, 50ms/115VAC at full load			
INPUT	HOLD UP TIME (Typ.)	8ms at full load	230VAC/115VAC			
	VOLTAGE RANGE Note.5	88 ~ 264VAC	124 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.95/230VAC	PF>0.98/115VAC at full load			
	EFFICIENCY (Typ.)	79.5%	83%	84.5%	86%	88%
	AC CURRENT (Typ.)	2.7A/115VAC	1.5 A/230VAC	5A/115VAC	2.5 A/230VAC	
	INRUSH CURRENT (Typ.)	20A/115VAC	40A/230VAC			
PROTECTION	LEAKAGE CURRENT	<1mA / 240VAC				
	OVERLOAD	105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	2.88 ~ 3.38V	3.8 ~ 4.5V	4.5 ~ 5.3V	5.75 ~ 6.75V	9.4 ~ 10.9V
	OVER TEMPERATURE	80°C ±5°C (TSW1) detect on heatsink of power transistor Protection type : Shutdown o/p voltage, recovers automatically after temperature goes down				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "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	UL60950-1, TUV EN60950-1 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 EN55022 (CISPR22) Class B, EN61000-3-2,-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A				
OTHERS	MTBF	206.5K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	215*115*30mm (L*W*H)				
	PACKING	0.9Kg; 15pcs/14.5Kg/0.81CUFT				

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■ Mechanical Specification

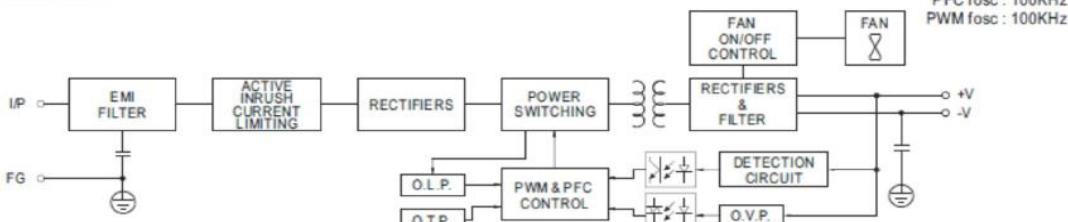
Case No. 207A Unit:mm



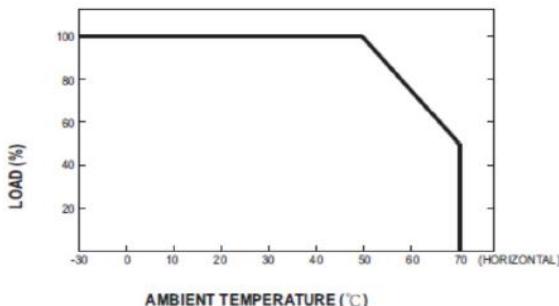
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4-6	DC OUTPUT -V
2	AC/N	7-9	DC OUTPUT +V
3	EG ±		

Block Diagram



■ Derating Curve



■ Static Characteristics

