



320W Single Output with PFC Function

RSP-320E



■ 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
- Built-in cooling Fan ON-OFF control
- 1U low profile 30mm
- Conformal coating models
- LED indicator for power on
- 3 years warranty

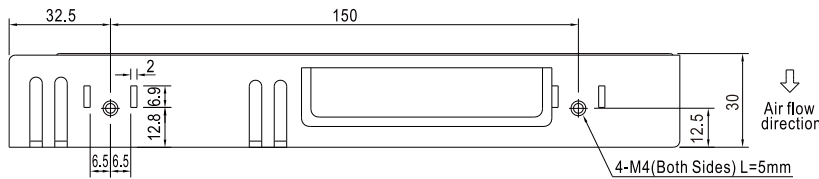
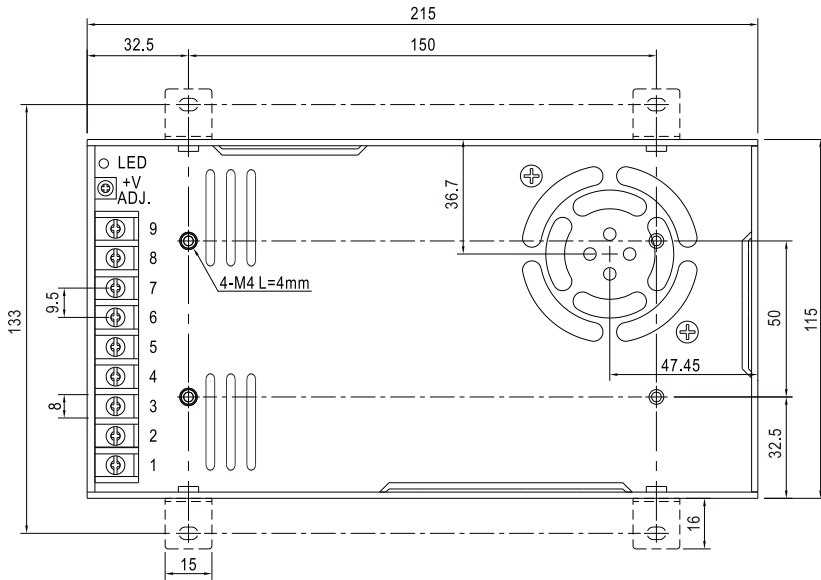


SPECIFICATION

Order No.	RSP-320E-4.2	RSP-320E-5	
MODEL	RSP-320-4.2	RSP-320-5	
OUTPUT	DC VOLTAGE	4.2V	5V
	RATED CURRENT	60A	60A
	CURRENT RANGE	0 ~ 60A	0 ~ 60A
	RATED POWER	252W	300W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	3.7 ~ 4.3V	4.5 ~ 5.5V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	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.)	81%	83%
	AC CURRENT (Typ.)	2.7A/115VAC 1.5A/230VAC	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	4.5~5.3V	5.75 ~ 6.75V
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down	
FUNCTION	FAN ON/OFF CONTROL (Typ.)	RTH3≥50°C FAN ON, ≤40°C FAN OFF	
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 5)	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 EN55032 (CISPR32) 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/0.78CUFT	
NOTE	<ol style="list-style-type: none"> 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. 		

Mechanical Specification

Case No.207A Unit:mm

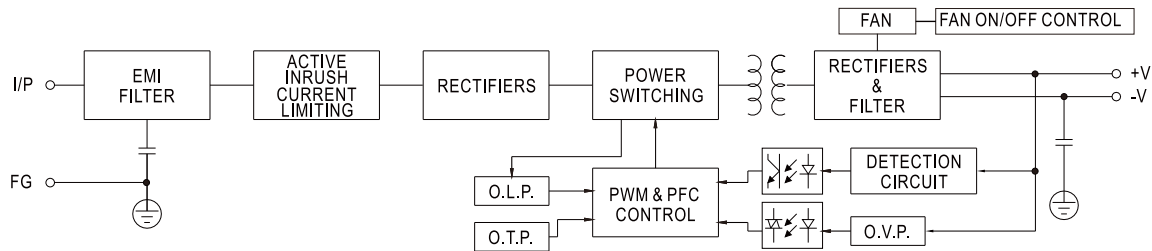


Terminal Pin No. Assignment :

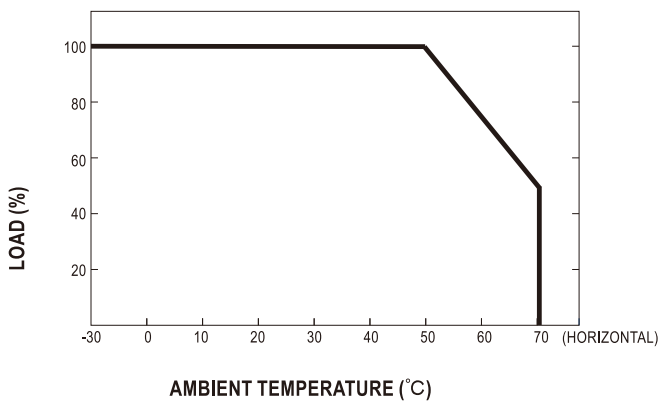
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4~6	DC OUTPUT -V
2	AC/N	7~9	DC OUTPUT +V
3	FG \perp		

Block Diagram

PFC fosc : 100KHz
PWM fosc : 100KHz



Derating Curve



Static Characteristics

