

320W Single Output with PFC Function

RSP-320 series



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
- 3 years warranty



SPECIFICATION

MODEL		RSP-320-2.5	RSP-320-3.3	RSP-320-4	RSP-320-5	RSP-320-7.5	RSP-320-12			
	DC VOLTAGE	2.5V	3.3V	4V	5V	7.5V	12V			
OUTPUT	RATED CURRENT	60A	60A	60A	60A	40A	26.7A			
	CURRENT RANGE	0~60A	0~60A	0~60A	0~60A	0~40A	0~26.7A			
	RATED POWER	150W	198W	240W	300W	300W	320.4W			
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	150mVp-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	10~13.2V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.3%			
	LOAD REGULATION	±1.5%	±1.5%	±1.0%	±1.0%	±1.0%	±0.5%			
	SETUP, RISE TIME	1500ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load								
	HOLD UP TIME (Typ.)	8ms at full load 230VAC /115VAC								
	,	88 ~ 264VAC 124 ~ 370VDC								
	FREQUENCY RANGE	47~63Hz								
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load								
INPUT	EFFICIENCY (Typ.)	75.5%	79.5%	81%	83%	88%	88%			
	AC CURRENT (Typ.)	2.7A/115VAC	1.5 A/230VAC	0170	4A/115VAC	2A/230VAC	00,0			
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC 40A/230VAC								
	LEAKAGE CURRENT	250/113/46 400/250/46 <1ma/240VAC								
		105 ~ 135% rated output power								
PROTECTION	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed								
		2.88 ~ 3.38V	3.8 ~ 4.5V	4.5 ~ 5.3V	5.75 ~ 6.75V	9.4 ~ 10.9V	13.8 ~ 16.2V			
	OVER VOLTAGE	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")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION									
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
SAFETY &	WITHSTAND VOLTAGE	UL60950-1, TUV EN60950-1, CCC GB4943 approved I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
	ISOLATION RESISTANCE									
EMC (Note 5)	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
(11010-0)		Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, GB9254 class B, GB17625.1								
		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	 Ripple & noise are measured. Tolerance : includes set up Derating may be needed uits. The power supply is consided a 360mm*360mm metal plate perform these EMC tests, p. For charging related application. 	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. Inder low input voltages. Please check the derating curve for more details. dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit or ate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) ations, please consult Mean Well for details. at external output capacitance should not exceed 5000uF. (Only for: RSP-320-2.5/-3.3/-4/-5/-7.5/-12/-13.5/-15)								



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- LED indicator for power on
- 3 years warranty



SPECIFICATION

MODEL		RSP-320-13.5	RSP-320-15	RSP-320-24	RSP-320-27	RSP-320-36	RSP-320-48			
OUTPUT	DC VOLTAGE	13.5V	15V	24V	27V	36V	48V			
	RATED CURRENT	23.8A	21.4A	13.4A	11.9A	8.9A	6.7A			
	CURRENT RANGE	0~23.8A	0~21.4A	0~13.4A	0~11.9A	0~8.9A	0~6.7A			
	RATED POWER	321.3W	321W	321.6W	321.3W	320.4W	321.6W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	220mVp-p	240mVp-p			
	VOLTAGE ADJ. RANGE	12 ~ 15V	13.5 ~ 18V	20~26.4V	26~31.5V	32.4 ~ 39.6V	41~56V			
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%			
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	1500ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load								
	HOLD UP TIME (Typ.)	8ms at full load 230VAC /115VAC								
	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								
NPUT	EFFICIENCY (Typ.)	88%	88.5%	89%	89%	89.5%	90%			
	AC CURRENT (Typ.)	4A/115VAC 2A/230VAC								
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC								
	LEAKAGE CURRENT	<1mA/240VAC								
	OVERLOAD									
		71			r fault condition is ren					
PROTECTION	OVER VOLTAGE	15.7 ~ 18.4V	18.8 ~ 21.8V	27.6 ~ 32.4V	32.9 ~ 38.3V	41.4 ~ 48.6V	58.4 ~ 68V			
		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 $^{\circ}$ C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
ENVIRONMENT	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, CCC GB4943 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, GB9254 class B, GB17625.1								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A								
	MTBF	206.5K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	215*115*30mm (L*W*H)								
	PACKING	0.9Kg; 15pcs/14.5Kg/0.78CUFT								
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