TOTAL POWER INT'L

320W Single Output with PFC Function

SP-320 series



Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections:Short circuit/Over load/Over voltage/Over temperature
- Forced air cooling by built-in DC Fan
- Built-in fan speed control
- Fixed switching frequency at 100KHz
- 3 years warranty

SPECIFICATION



MODEL		SP-320-5	SP-320-7.5	SP-320-12	SP-320-13.5	SP-320-15	SP-320-24	SP-320-27	SP-320-48	
	DC VOLTAGE	5V	7.5V	12V	13.5V	15V	24V	27V	48V	
OUTPUT	RATED CURRENT	55A	40A	25A	22A	20A	13A	11.7A	6.7A	
	CURRENT RANGE	0 ~ 60A	0 ~ 40A	0 ~ 25A	0 ~ 22A	0 ~ 20A	0 ~ 13A	0 ~ 11.7A	0 ~ 6.7A	
	RATED POWER	275W	300W	300W	297W	300W	312W	315.9W	321.6W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p	
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	6~9V	10 ~ 13.2V	12 ~ 15V	13.5 ~ 18V	20 ~ 26.4V	26 ~ 32V	41 ~ 56V	
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	
	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE, HOLD TIME	800ms, 50ms,			ms, 16ms/115V					
INPUT	VOLTAGE RANGE	88 ~ 264VAC 120 ~ 370VDC								
	FREQUENCY RANGE	47~63Hz								
	POWER FACTOR	PF>0.95/230VAC PF>0.98/115VAC at full load								
	EFFICIENCY (Typ.)	79%	83%	86%	86%	86%	87%	88%	89%	
	AC CURRENT	5A/115VAC	2.5A/230VAC	1			1		1	
	INRUSH CURRENT (max.)	22A/115VAC 40A/230VAC								
	LEAKAGE CURRENT	<1mA/240VAC								
PROTECTION	OVER LOAD	105 ~ 135% rated output power								
		Protection type: Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	5.75 ~ 6.75V	9.4 ~ 10.9V	13.8 ~ 16.2V	15.5 ~ 18.2V	18 ~ 21V	27.6 ~ 32.4V	33.7 ~ 39.2V	57.6 ~ 67.2V	
		Protection type	: Shut down o/	p voltage, re-po	wer on to recove	r		<u>'</u>		
	OVER TEMPERATURE	80°C ±5°C (70°C ±5°C 5V only) (TSW1 : Detect on heatsink of power transistor)								
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down								
ENVIRONMENT	WORKING TEMP.	-20 ~ +65°C (Refer to output load 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 STANDARDS	UL60950, TUV EN60950 Approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC								
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC								
EMC	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B								
(Note 4)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3								
	EMS IMMUNITY	Compliance to	EN61000-4-2,3	3,4,5,6,8,11; EN	V50204, EN550	24, Light indust	ry level, criteria	A		
OTHERS	MTBF	207K hrs min.	MIL-HDBK-2	17F (25°C)						
	DIMENSION	215*115*50mm (L*W*H)								
	PACKING		14.4Kg / 0.98C	UFT						
NOTE	 Ripple & noise are measure Tolerance : includes set up 	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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.								

