



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

SP-320-3.3 SP-320-5 SP-320-7.5 SP-320-12 SP-320-13.5 SP-320-15 SP-320-24 SP-320-27 SP-320-36 SP-320-48



SPECIFICATION

MODEL

MODEL			SP 320 3 3	SP-320-5	SP-320-7.5	SP-320-12	SP-320-13.5	SP-320-15	SP-320-24	SP-320-27	SP-320-36	SP-320-48
ОИТРИТ	DC VOLTAGE		3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	36V	48V
	RATED CURRENT		55A	55A	40A	25A	22A	20A	13A	11.7A	8.8A	6.7A
	CURRENT RANGE		0 ~ 60A	0 ~ 55A	0 ~ 40A	0 ~ 25A	0 ~ 22A	0 ~ 20A	0 ~ 13A	0 ~ 11.7A	0 ~ 8.8A	0 ~ 6.7A
	RATED POWER		181.5W	275W	300W	300W	297W	300W	312W	315.9W	316.8W	321.6W
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp - p	150mVp-p	200mVp-p	220mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE		3.14 ~ 3.63V	4.5 ~ 5.5V	6~9V	10 ~ 13.2V	12 ~ 15V	13.5 ~ 18V	20 ~ 26.4V	26 ~ 31.5V	32.4 ~ 39.6V	41 ~ 56V
	VOLTAGE TOLERANCE Note.3		±1.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION		±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION		±1.5%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME		800ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load									
	HOLD TIME (Typ.)		16ms/230VAC 16ms/115VAC at full load									
INPUT -	VOLTAGE RANGE Note.5 FREQUENCY RANGE		88 ~ 264VAC 124 ~ 370VDC									
			47 ~ 63Hz									
	POWER FACTOR (Typ.)		PF>0.95/230VAC PF>0.98/115VAC at full load									
	EFFICIENCY (Typ.)		74%	79%	83%	86%	86%	86%	87%	88%	87%	89%
	AC CURRENT	115VAC	2.5A	5A								
	(Typ.)	230VAC	1.5A 2.5A									
	INRUSH CURRENT (Typ.)		20A/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		3.8 ~ 4.5V 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 45 ~ 52.5V 57.6 ~ 67.2V									
			Protection type: Shut down o/p voltage, re-power on to recover									
	OVER TEMPERATURE		80°C ±5°C (70°C ±5°C 3.3V,5V only) (TSW1 : Detect on heatsink of power transistor)									
			Protection type: Shut down o/p voltage, recovers automatically after temperature goes down									
	WORKING TEMP.		-20 ~ +65°C (Refer to output load derating curve)									
ENVIRONMENT	WORKING HUMIDITY		20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY											
	TEMP. COEFFICIENT		±0.03%/°C (0~50°C)									
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
	SAFETY STANDARDS		UL60950-1, TUV EN60950-1 Approved									
CAFETY	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 (Note 4)	EMI CONDUCTION & RADIATION											
(HARMONIC CURRENT		Compliance to EN61000-3-2,-3									
	EMS IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A									
	MTBF		207K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION		215*115*50mm (L*W*H)									
	PACKING		1.1Kg; 12pcs/14Kg/0.92CUFT									
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. Derating may be needed under low input voltages. Please check the derating curve for more details. 											



