



## 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 / Overload / 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-320-3.3	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 UP TIME (Typ.)		16ms/230VAC 16ms/115VAC at full load										
INPUT	VOLTAGE RANGE Note.5		88 ~ 264VAC 124 ~ 370VDC										
	FREQUENCY RANGE		47 ~ 63Hz										
	POWER FACTOR (Typ.)		PF>0.95/23	0VAC F	PF>0.98/115\	/AC at full loa	ıd						
	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	OVERLOAD		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 ~ 67.2										
			Protection type: Shut down o/p voltage, re-power on to recover										
	OVER TEMPERAT	/ER TEMPERATURE		Shut down o/p voltage, recovers automatically after temperature goes down									
ENVIRONMENT	WORKING TEMP.		-20 ~ +65°C (Refer to "Derating Curve")										
	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 & EMC (Note 4)	SAFETY STANDARDS		UL60950-1, TUV EN60950-1, CCC GB4943(except for 3.3V, 36V) 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		207K hrs min. MIL-HDBK-217F (25°ℂ)										
	DIMENSION		215*115*50mm (L*W*H)										
	PACKING		1.1Kg; 12pcs/14Kg/0.92CUFT										
NOTE	2. Ripple & noise 3. Tolerance : incl 4. The power sup a 360mm*360n	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  Provided the parameters of a specially mentioned are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf 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. All the EMC tests are been executed by mounting the unit on a 360mm metal plate with 1 mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to											

File Name: SP-320-SPEC 2017-07-14

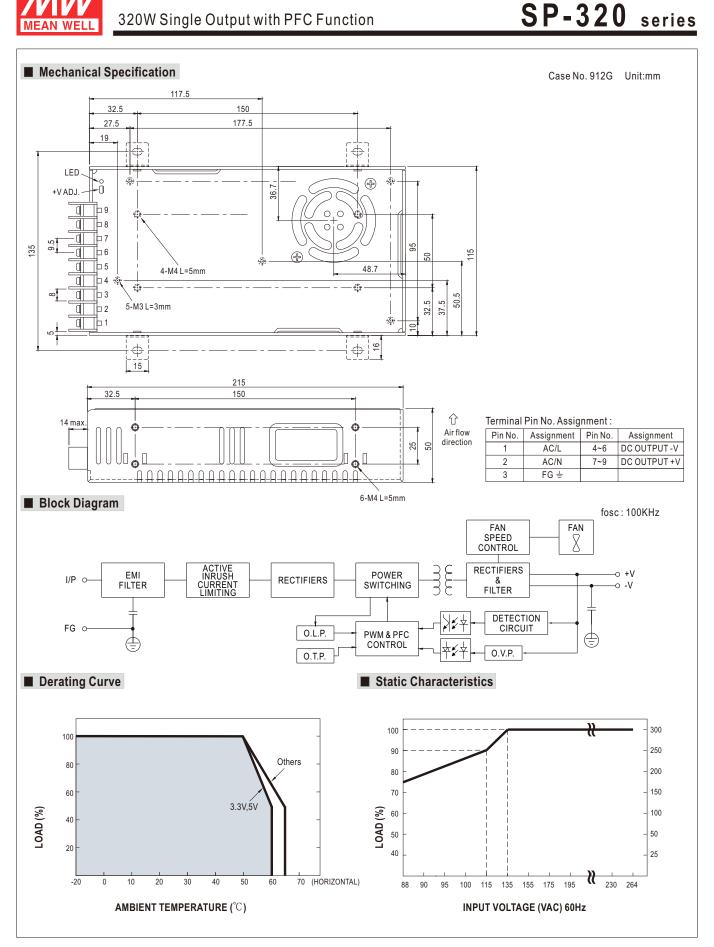
5. Derating may be needed under low input voltages. Please check the derating curve for more details.

perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)





320W Single Output with PFC Function





File Name: SP-320-SPEC 2017-07-14