



320W Single Output with PFC Function

320W
MW 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 ball bearing fan
- . 100% full load burn-in test
- . Low cost

. 3 years warranty

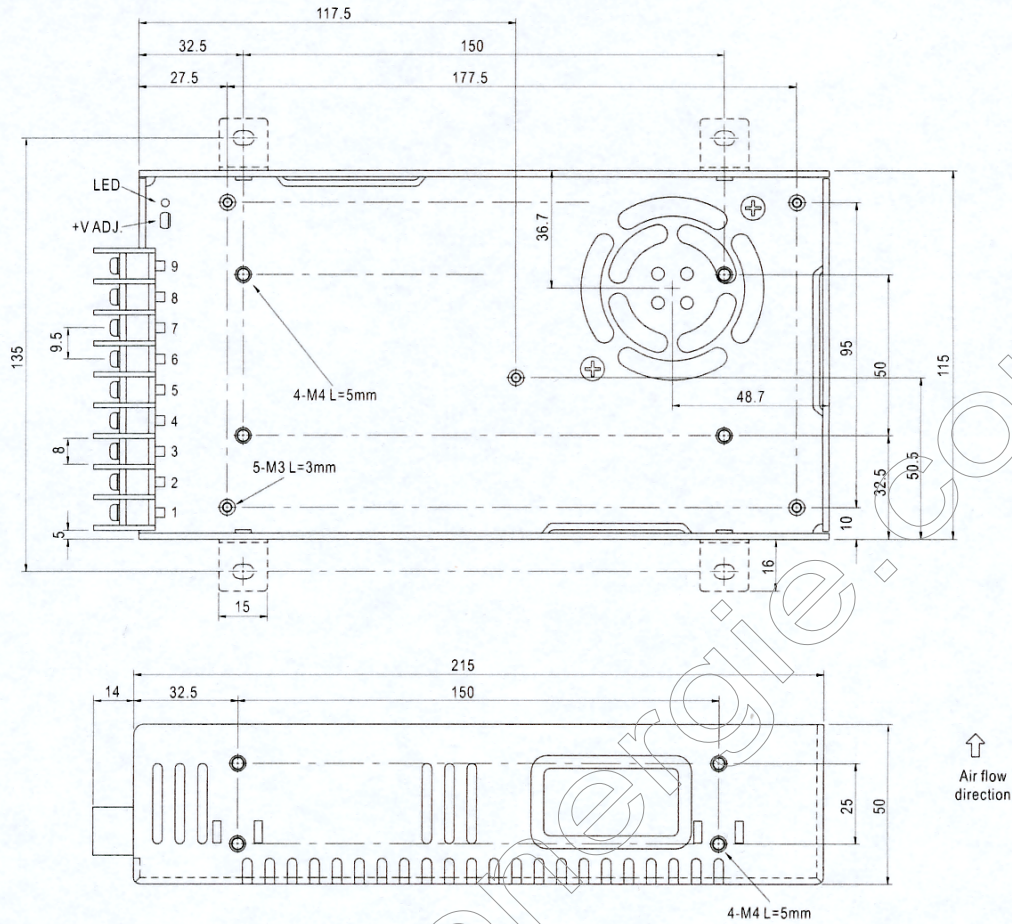


MODEL		SP-320-5	SP-320-7.5	SP-320-12	SP-320-13.5	SP-320-15	SP-320-24	SP-320-27	SP-320-48
OUTPUT	DC VOLTAGE	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	RATED CURRENT	55A	40A	25A	22A	20A	13A	11.7A	6.7A
	CURRENT RANGE	0 ~ 60A	0 ~ 40A	0 ~ 25A	0 ~ 22A	0 ~ 20A	0 ~ 13A	0 ~ 11.7A	0 ~ 6.7A
	RATED POWER	275W	300W	300W	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%	±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, 16ms/230VAC			2500ms, 50ms, 16ms/115VAC at full load					
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/115VAC					
	INRUSH CURRENT (max.)	22A/115VAC		40A/230VAC					
LEAKAGE CURRENT	<1mA / 240VAC								
PROTECTION	OVER LOAD	105~135% of rate load 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-power on to recover							
	OVER TEMPERATURE	80℃±5℃ (70℃±5℃, 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., HUMIDITY	-20 ~ +65℃ (Refer to output load derating curve), 20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS	UL60950, TUV EN60950 Approved							
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B							
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3, Class A							
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A							
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC							
OTHERS	MTBF	207K hrs min. MIL-HDBK-217F (25℃)							
	DIMENSION	215*115*50mm (L*W*H)							
	PACKING	1.2Kgs/pcs, 12pcs/14.4Kgs/0.98CUFT							
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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.								



■ Mechanical Specification

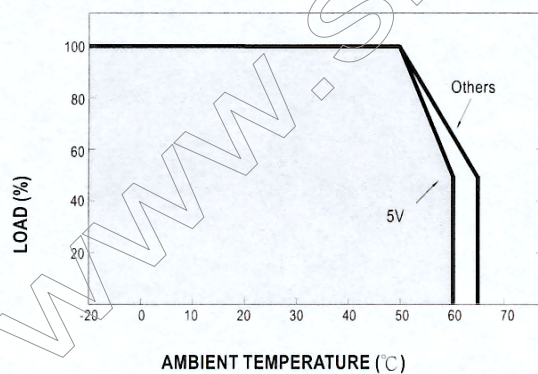
Case No. 912 Unit:mm



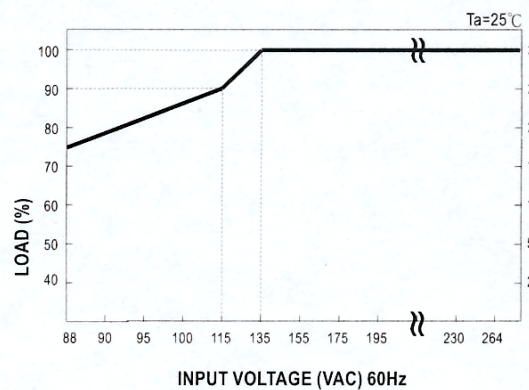
Terminal pin number assignment :

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

■ Derating Curve



■ Static Characteristics



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