

# RSP-320-5



### Description

RSP-320-5 is a 320W single output enclosed type AC/DC power supply. This series operates for  $88^{2}264VAC$  input voltage and offers the models with the DC output mostly demanded from the industry. Each model is cooled by the built-in fan with fan speed control, working for the temperature up to  $70^{\circ}C$ .





#### SPECIFICATION

MODEL		RSP-320-5
	DC VOLTAGE	5V
OUTPUT	RATED CURRENT	60A
	CURRENT RANGE	0 ~ 60A
	RATED POWER	300W
	RIPPLE & NOISE (max.) Note.2	150mVp-p
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V
	VOLTAGE TOLERANCE Note.3	±2.0%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±1.0%
	SETUP, RISE TIME	1500ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load
	HOLD UP TIME (Typ.)	8ms at full load 230VAC /115VAC
INPUT	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
	EFFICIENCY (Typ.)	83%
	AC CURRENT (Tvp.)	2.7A/115VAC 1.5 A/230VAC 4A/115VAC 2A/230VAC
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
	OVERLOAD	105 ~ 135% rated output power
PROTECTION		Protection type : Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	5.75 ~ 6.75V
		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
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "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
		UL62368-1,TUV BS EN/EN62368-1,EAC TP TC 004, CCC GB4943.1,BSMI CNS14336-1, AS/NZS 60950.1, IS13252(Part1)/
	SAFEIT STANDARDS	IEC60950-1(except for 2.5V,48V), Dekra EN 61558-1/2-16, IEC 61558-1/2-16 (for 12V or higher models) approved
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
(Note 5)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13438, GB9254 Class B, GB17625.1
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020
OTHERS	MTBF	1826.4K hrs min. Telcordia SR-332 (Bellcore) ; 192.9K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	215*115*30mm (L*W*H)
	PACKING	0.9Kg; 15pcs/14.5Kg/0.67CUFT
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µ F &amp; 47 µ F parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>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*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</li> <li>For charging related applications, please consult Mean Well for details.</li> <li>Strongly recommended that external output capacitance should not exceed 5000uF. (Only for: RSP-320-2.5/-3.3/-4/-5/-7.5/-12/-13.5/-15)</li> <li>The ambient temperature derating of 3 5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude</li> </ol>	
	higher than 2000m(6500ft). X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx	



### 320W Single Output with PFC Function

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