































Features

- Universal AC input / Full range
- · Built-in active PFC function
- · High efficiency up to 90%
- · Forced air cooling by built-in DC Fan with fan speed control function
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- · Optional conformal coating
- · LED indicator for power on
- · 3 years warranty











Applications

- · Factory control or automation apparatus
- Test and measurement instrument
- · Laser related machine
- · Burn-in facility
- · RF application

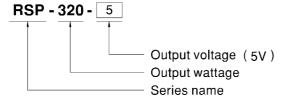
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

RSP-320 is a 320W single output enclosed type AC/DC power supply. This series operates for 88~264VAC 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°C.

■ Model Encoding / Order Information





SPECIFICATION

INPUT EF AC INF PROTECTION OV ENVIRONMENT ET AC OV PROTECTION OV ENVIRONMENT TE	REQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT EAKAGE	4.5 ~ 5.5V ±2.0% ±0.5% ±1.0% 1500ms, 50ms/230 8ms at full load 23 88 ~ 264VAC 47 ~ 63Hz PF>0.95/230VAC 75.5% 2.7A/115VAC 20A/115VAC 105 ~ 135% rated of Protection type : Hi 2.88 ~ 3.38V Protection type : SI Shut down o/p voltage	30VAC /115VAC 124 ~ 370VDC PF>0.98/115VAC 79.5% 1.5 A/230VAC 40A/230VAC butput power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	s automatically after for 4.5 ~ 5.3V re-power on to recov	83% 4A/115VAC ault condition is remained by the second condition condition is remained by the second condition condition is remained by the second condition condition condition is remained by the second condition	88% 2A/230VAC oved 9.4 ~ 10.9V	88%				
OUTPUT VO VO LIN LO SE HO PROTECTION OV ENVIRONMENT TE CU RA RI RI RI RI RI RI RI RI RI	CURRENT RANGE RATED POWER RATED POWER RIPPLE & NOISE (max.) Note.2 FOLTAGE ADJ. RANGE FOLTAGE TOLERANCE Note.3 INE REGULATION OAD REGULATION OAD REGULATION OAD REGULATION OAT RANGE OWER FACTOR (Typ.) OAT CURRENT (Typ.) OAT CURRENT (Typ.) OAT CURRENT (Typ.) OAT CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE OVER TEMPERATURE OVER TEMPERATURE OAT	0 ~ 60A 300W 150mVp-p 4.5 ~ 5.5V ±2.0% ±0.5% ±1.0% 1500ms, 50ms/230 8ms at full load 23 88 ~ 264VAC 47 ~ 63Hz PF>0.95/230VAC 75.5% 2.7A/115VAC 20A/115VAC 41mA/240VAC 105 ~ 135% rated of Protection type: Hi 2.88 ~ 3.38V Protection type: SI Shut down o/p volta	30VAC /115VAC 124 ~ 370VDC PF>0.98/115VAC 79.5% 1.5 A/230VAC 40A/230VAC butput power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	C at full load 81% s automatically after for 4.5 ~ 5.3V re-power on to recov	83% 4A/115VAC ault condition is remained by the second condition condition is remained by the second condition condition is remained by the second condition condition condition is remained by the second condition	2A/230VAC					
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INPUT	OAD REGULATION SETUP, RISE TIME SIOLD UP TIME (Typ.) FOLTAGE RANGE Note.4 FREQUENCY RANGE FOWER FACTOR (Typ.) FFFICIENCY (Typ.) FOLC CURRENT (Typ.) FOLEAKAGE CURRENT FOLEAKAGE CURRENT FOLEAKAGE CURRENT FOLEAKAGE FOLE	±1.0% 1500ms, 50ms/230 8ms at full load 23 88 ~ 264VAC 47 ~ 63Hz PF>0.95/230VAC 75.5% 2.7A/115VAC 20A/115VAC 41mA / 240VAC 105 ~ 135% rated of Protection type: Hi 2.88 ~ 3.38V Protection type: SI Shut down o/p volta	30VAC /115VAC 124 ~ 370VDC PF>0.98/115VAC 79.5% 1.5 A/230VAC 40A/230VAC butput power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	C at full load 81% s automatically after for 4.5 ~ 5.3V re-power on to recov	83% 4A/115VAC ault condition is remained by the second condition condition is remained by the second condition condition is remained by the second condition condition condition is remained by the second condition condit	2A/230VAC					
INPUT	OAD REGULATION SETUP, RISE TIME SIOLD UP TIME (Typ.) FOLTAGE RANGE Note.4 FREQUENCY RANGE FOWER FACTOR (Typ.) FFFICIENCY (Typ.) FOLC CURRENT (Typ.) FOLEAKAGE CURRENT FOLEAKAGE CURRENT FOLEAKAGE CURRENT FOLEAKAGE FOLE	1500ms, 50ms/230 8ms at full load 23 88 ~ 264VAC 47 ~ 63Hz PF>0.95/230VAC 75.5% 2.7A/115VAC 40A/115VAC 41mA / 240VAC 105 ~ 135% rated correction type : Hi 2.88 ~ 3.38V Protection type : SI Shut down o/p voltage in the same and in the same	30VAC /115VAC 124 ~ 370VDC PF>0.98/115VAC 79.5% 1.5 A/230VAC 40A/230VAC butput power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	C at full load 81% s automatically after for 4.5 ~ 5.3V re-power on to recov	83% 4A/115VAC ault condition is remained by the second condition condition is remained by the second condition condition is remained by the second condition condition condition is remained by the second condition condit	2A/230VAC					
INPUT	IOLD UP TIME (Typ.) OLTAGE RANGE Note.4 PREQUENCY RANGE POWER FACTOR (Typ.) SEFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE VORKING TEMP.	8ms at full load 23 88 ~ 264VAC 47 ~ 63Hz PF>0.95/230VAC 75.5% 2.7A/115VAC 20A/115VAC 105 ~ 135% rated of Protection type : Hi 2.88 ~ 3.38V Protection type : SI Shut down o/p volta	30VAC /115VAC 124 ~ 370VDC PF>0.98/115VAC 79.5% 1.5 A/230VAC 40A/230VAC butput power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	C at full load 81% s automatically after for 4.5 ~ 5.3V re-power on to recov	83% 4A/115VAC ault condition is remained by the second condition condition is remained by the second condition condition is remained by the second condition condition condition is remained by the second condition condit	2A/230VAC					
INPUT	IOLD UP TIME (Typ.) OLTAGE RANGE Note.4 PREQUENCY RANGE POWER FACTOR (Typ.) SEFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE VORKING TEMP.	8ms at full load 23 88 ~ 264VAC 47 ~ 63Hz PF>0.95/230VAC 75.5% 2.7A/115VAC 20A/115VAC 105 ~ 135% rated of Protection type : Hi 2.88 ~ 3.38V Protection type : SI Shut down o/p volta	30VAC /115VAC 124 ~ 370VDC PF>0.98/115VAC 79.5% 1.5 A/230VAC 40A/230VAC butput power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	C at full load 81% s automatically after for 4.5 ~ 5.3V re-power on to recov	83% 4A/115VAC ault condition is remained by the second condition condition is remained by the second condition condition is remained by the second condition condition condition is remained by the second condition condit	2A/230VAC					
VO FR PO	OLTAGE RANGE Note.4 REQUENCY RANGE POWER FACTOR (Typ.) REFICIENCY (Typ.) NRUSH CURRENT (Typ.) REAKAGE CURRENT DVERLOAD ROVER VOLTAGE VOER TEMPERATURE VORKING TEMP.	47 ~ 63Hz PF>0.95/230VAC 75.5% 2.7A/115VAC 20A/115VAC <1mA / 240VAC 105 ~ 135% rated of Protection type: Hi 2.88 ~ 3.38V Protection type: SI Shut down o/p voltage.	PF>0.98/115VA(79.5% 1.5 A/230VAC 40A/230VAC output power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	s automatically after for 4.5 ~ 5.3V re-power on to recov	4A/115VAC ault condition is rem 5.75 ~ 6.75V	2A/230VAC					
PROTECTION OV CENVIRONMENT TE	OWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE VORKING TEMP.	47 ~ 63Hz PF>0.95/230VAC 75.5% 2.7A/115VAC 20A/115VAC <1mA / 240VAC 105 ~ 135% rated c Protection type : Hi 2.88 ~ 3.38V Protection type : SI Shut down o/p volta	PF>0.98/115VA(79.5% 1.5 A/230VAC 40A/230VAC output power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	s automatically after for 4.5 ~ 5.3V re-power on to recov	4A/115VAC ault condition is rem 5.75 ~ 6.75V	2A/230VAC					
PROTECTION OV CENVIRONMENT TE	OWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE VORKING TEMP.	75.5% 2.7A/115VAC 20A/115VAC <1mA / 240VAC 105 ~ 135% rated of Protection type: Hi 2.88 ~ 3.38V Protection type: SI Shut down o/p volta	79.5% 1.5 A/230VAC 40A/230VAC output power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	s automatically after for 4.5 ~ 5.3V re-power on to recov	4A/115VAC ault condition is rem 5.75 ~ 6.75V	2A/230VAC					
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PROTECTION OV ENVIRONMENT TE	AC CURRENT (Typ.) NRUSH CURRENT (Typ.) LEAKAGE CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE VORKING TEMP.	20A/115VAC <1mA / 240VAC 105 ~ 135% rated of Protection type: Hi 2.88 ~ 3.38V Protection type: SI Shut down o/p volta	1.5 A/230VAC 40A/230VAC output power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	s automatically after fa 4.5 ~ 5.3V re-power on to recov	4A/115VAC ault condition is rem 5.75 ~ 6.75V	2A/230VAC					
PROTECTION OV OV ENVIRONMENT TE	NRUSH CURRENT (Typ.) EAKAGE CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE VORKING TEMP.	<1mA / 240VAC 105 ~ 135% rated of Protection type: Hi 2.88 ~ 3.38V Protection type: SI Shut down o/p volta	output power iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	4.5 ~ 5.3V re-power on to recov	5.75 ~ 6.75V		13.8 ~ 16.2V				
PROTECTION OV OV ENVIRONMENT TE	EAKAGE CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE VORKING TEMP.	105 ~ 135% rated of Protection type: Hi 2.88 ~ 3.38V Protection type: SI Shut down o/p volta	iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	4.5 ~ 5.3V re-power on to recov	5.75 ~ 6.75V		13.8 ~ 16.2V				
PROTECTION OV OV ENVIRONMENT TE	OVERLOAD OVER VOLTAGE OVER TEMPERATURE VORKING TEMP.	105 ~ 135% rated of Protection type: Hi 2.88 ~ 3.38V Protection type: SI Shut down o/p volta	iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	4.5 ~ 5.3V re-power on to recov	5.75 ~ 6.75V		13.8 ~ 16.2V				
PROTECTION OV OV ENVIRONMENT TE	OVER VOLTAGE OVER TEMPERATURE VORKING TEMP.	Protection type : Hi 2.88 ~ 3.38V Protection type : SI Shut down o/p volta	iccup mode, recovers 3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	4.5 ~ 5.3V re-power on to recov	5.75 ~ 6.75V		13.8 ~ 16.2V				
OV OV WC ENVIRONMENT ST TE	OVER TEMPERATURE VORKING TEMP.	2.88 ~ 3.38V Protection type : Sh Shut down o/p volta	3.8 ~ 4.5V hut down o/p voltage, age, recovers automa	4.5 ~ 5.3V re-power on to recov	5.75 ~ 6.75V		13.8 ~ 16.2V				
OV OV WC ENVIRONMENT ST TE	OVER TEMPERATURE VORKING TEMP.	Shut down o/p volta	hut down o/p voltage, age, recovers automa	re-power on to recov							
ENVIRONMENT ST TE	VORKING TEMP.	Shut down o/p volta	age, recovers automa	•							
ENVIRONMENT ST TE	VORKING TEMP.		•	mount and tomporat	Shut down o/p voltage, recovers automatically after temperature goes down						
ENVIRONMENT ST TE			-30 ~ +70°C (Refer to "Derating Curve")								
ENVIRONMENT ST	VORKING HUMIDITY	20 ~ 90% RH non-condensing									
TE	TORAGE TEMP., HUMIDITY										
_	EMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	'IBRATION	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)/									
SA	SAFETY STANDARDS		for 2.5V,48V),Dekra El				• •				
SAFETY& WI	VITHSTAND VOLTAGE		I/P-FG:2KVAC O/P		,	, , , ,					
	SOLATION RESISTANCE	I/P-O/P, I/P-FG, O/	/P-FG:100M Ohms / 5	600VDC / 25°C / 70% F							
	MC 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									
EM	MC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020									
мт	MTBF	1826.4K hrs min. Telcordia SR-332 (Bellcore) ; 192.9K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	215*115*30mm (L*	,	, , , , , , , , , , , , , , , , ,		(=0 =)					
	ACKING	0,9Kg; 15pcs/14,5K									
2. 3. 4. 5. NOTE 6. 7. 8.	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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. 4. Derating may be needed under low input voltages. Please check the derating curve for more details. 5. 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 http://www.meanwell.com) 6. For charging related applications, please consult Mean Well for details. 7. 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) 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). We Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx										



