

Dimension -

L * W * 215 * 115 * 30 mm

8.46 * 4.53 * 1.18 inch

















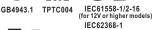












■ Features

- 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
- Operating altitude up to 5000 meters
- · 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

MODEL		RSP-320-2.5	RSP-320-3.3	RSP-320-4	RSP-320-5	RSP-320-7.5	RSP-320-12			
	DC VOLTAGE	2.5V	3.3V	4V	5V	7.5V	12V			
OUTPUT	RATED CURRENT	60A	60A	60A	60A	40A	26.7A			
	CURRENT RANGE	0 ~ 60A	0~60A	0 ~ 60A	0 ~ 60A	0 ~ 40A	0 ~ 26.7A			
	RATED POWER	150W	198W	240W	300W	300W	320.4W			
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p			
	VOLTAGE ADJ. RANGE	2.35 ~ 2.85V	2.97 ~ 3.8V	3.7 ~ 4.3V	4.5 ~ 5.5V	6 ~ 9V	10 ~ 13.2V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.3%			
	LOAD REGULATION	±1.5%	±1.5%	±1.0%	±1.0%	±1.0%	±0.5%			
	SETUP, RISE TIME	1500ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load								
	HOLD UP TIME (Typ.)	8ms at full load 230VAC /115VAC								
	1 2 2 1	88 ~ 264VAC 124 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load								
INPUT	EFFICIENCY (Typ.)	75.5%	79.5%	81%	83%	88%	88%			
	AC CURRENT (Typ.)	2.7A/115VAC 1	.5 A/230VAC	1	4A/115VAC 2A	V/230VAC				
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC								
	LEAKAGE CURRENT	<1mA/240VAC								
PROTECTION	ELITORE CONTREM	105 ~ 135% rated output power								
	OVERLOAD			automatically after fa	ult condition is remov	n d				
		2.88 ~ 3.38V	3.8 ~ 4.5V	4.5 ~ 5.3V	5.75 ~ 6.75V	9.4 ~ 10.9V	13.8 ~ 16.2V			
	OVER VOLTAGE					0.4 10.04	10.0 10.2 v			
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	Shut down o/p voltage, recovers automatically after temperature goes down -30 ~ +70°C (Refer to "Derating Curve")								
ENVIRONMENT	WORKING HUMIDITY									
	STORAGE TEMP., HUMIDITY	20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	-40~+85 C, 10~95% RH ±0.03%/°C (0~50°C)								
	VIBRATION									
	OPERATING ALTITUDE	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
	OPERATING ALTITUDE	5000 meters								
	SAFETY STANDARDS	UL62368-1,TUV BS EN/EN62368-1,EAC TP TC 004, CCC GB4943.1,BSMI CNS14336-1, AS/NZS 60950.1, IS13252(Part1)/ IEC60950-1(except for 2.5V,48V),Dekra EN 61558-1/2-16,IEC 61558-1/2-16(for 12V or higher models) approved								
0.4.5551/.0	WITHSTAND VOLTAGE									
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
EMC (Note 6)	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
(Note 6)	LING LINISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13438, GB9254 Class B, GB17625.1,KN 32(only for 5V)								
	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	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacition. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the derating curve for more details. 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). 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) For charging related applications, please consult Mean Well for details. 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/									



SPECIFICATION

ОИТРИТ	DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2	13.5V 23.8A 0 ~ 23.8A	15V 21.4A	24V	27V	36V	48V				
ОИТРИТ	CURRENT RANGE RATED POWER	0 ~ 23.8A	21.4A								
ОИТРИТ	RATED POWER			13.4A	11.9A	8.9A	6.7A				
ОИТРИТ	-		0 ~ 21.4A	0 ~ 13.4A	0 ~ 11.9A	0 ~ 8.9A	0 ~ 6.7A				
OUTPUT	RIPPLE & NOISE (max.) Note.2	321.3W	321W	321.6W	321.3W	320.4W	321.6W				
ОИТРИТ		150mVp-p	150mVp-p	150mVp-p	200mVp-p	220mVp-p	240mVp-p				
	VOLTAGE ADJ. RANGE	12 ~ 15V	13.5 ~ 18V	20 ~ 26.4V	26 ~ 31.5V	32.4 ~ 39.6V	41 ~ 56V				
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
	LINE REGULATION	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%				
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
i	SETUP, RISE TIME	1500ms, 50ms/230\	/AC 3000ms, 5	0ms/115VAC at full	load						
	HOLD UP TIME (Typ.)	8ms at full load 23	0VAC /115VAC								
	VOLTAGE RANGE Note.4	88 ~ 264VAC 124 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230VAC									
INPUT	EFFICIENCY (Typ.)	88%	88.5%	89%	89%	89.5%	90%				
	AC CURRENT (Typ.)	4A/115VAC 2A	/230VAC								
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC									
	LEAKAGE CURRENT	<1mA / 240VAC									
	OVERLOAD	105 ~ 135% rated output power									
		Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION	OVER VOLTAGE	15.7 ~ 18.4V	18.8 ~ 21.8V	27.6 ~ 32.4V	32.9 ~ 38.3V	41.4 ~ 48.6V	58.4 ~ 68V				
		Protection type : Sh	ut down o/p voltage.	re-power on to reco	over	l					
	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										
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
	OPERATING ALTITUDE	5000 meters									
		UL62368-1,TUV BS EN/EN62368-1,EAC TP TC 004, CCC GB4943.1,BSMI CNS14336-1, AS/NZS 60950.1, IS13252(Part1)/									
	SAFETY 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/F	P-FG:100M Ohms / 5	00VDC / 25°C / 70%	RH						
(Note 6)	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 E	N/EN61000-4-2,3,4	,5,6,8,11, BS EN/EI	N55035, light industry	y level, EAC TP TC 02	20				
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	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor 3. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the derating curve for more details. 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). 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. 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) For charging related applications, please consult Mean Well for details. 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) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										



