

Dimension -

L * W * H 215 * 115 * 30 mm 8.46 * 4.53 * 1.18 inch





 (\mathbf{w})



















GB4943.1 TPTC004

- · 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 $88\sim264$ VAC 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								
	() (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	0.70	4A/115VAC	2A/230VAC	0070			
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC								
	LEAKAGE CURRENT	<1mA/240VAC								
		105 ~ 135% rated output power								
PROTECTION	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
		2.88 ~ 3.38V	3.8 ~ 4.5V	4.5 ~ 5.3V	5.75 ~ 6.75V	9.4 ~ 10.9V	13.8 ~ 16.2V			
TROTEGION	OVER VOLTAGE					0.1 10.01	10.0 10.21			
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down								
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
ENVIRONMENT	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								
	VIDIO (III)	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	UEC60950-1, TUV BS EN/EN62366-1, EAC TP TC 004, CCC GB4943.1, BSMTCNS14336-1, AS/NZS 60950.1, TS 13252(Part 1)/								
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/EN630032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13436, GB9234 Class B, GB17623.1 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									
	DIMENSION									
	PACKING	215*115*30mm (L*W*H) 0.9Kq; 15pcs/14.5Kq/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 capacito 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 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/-15/8. 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). Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 									



SPECIFICATION

MODEL		RSP-320-13.5	RSP-320-15	RSP-320-24	RSP-320-27	RSP-320-36	RSP-320-48				
	DC VOLTAGE	13.5V	15V	24V	27V	36V	48V				
OUTPUT	RATED CURRENT	23.8A	21.4A	13.4A	11.9A	8.9A	6.7A				
	CURRENT RANGE	0 ~ 23.8A	0 ~ 21.4A	0 ~ 13.4A	0 ~ 11.9A	0 ~ 8.9A	0 ~ 6.7A				
	RATED POWER	321.3W	321W	321.6W	321.3W	320.4W	321.6W				
	RIPPLE & NOISE (max.) Note.2	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%				
	SETUP, RISE TIME	1500ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load									
	HOLD UP TIME (Typ.)	8ms at full load 230VAC /115VAC									
	(7. /	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.)	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									
		105 ~ 135% rated output power									
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION		15.7 ~ 18.4V	18.8 ~ 21.8V	27.6 ~ 32.4V	32.9 ~ 38.3V	41.4 ~ 48.6V	58.4 ~ 68V				
	OVER VOLTAGE	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										
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10m	in./1cycle, 60min. ea	ch 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)/									
	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/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 El	N/EN61000-4-2,3,4,5	5,6,8,11, BS EN/EN5	5035, light industry le	vel, EAC TP TC 02)				
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 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 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) 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). Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										



