



320W Single Output with PFC Function

RSP-320-4

Dimension

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

User's Manual



R33100
RoHS
CNS14336-1



IS13252
(except 2.5V,48V)



AS/NZS60950-1



UL62368-1



BS EN/EN62368-1 (only for 5V)



GB4943.1



TPTC004



IEC61558-1/2-16
(for 12V or higher models)
IEC62368-1



EN61558-1/2-16
(for 12V or higher models)



■ Features

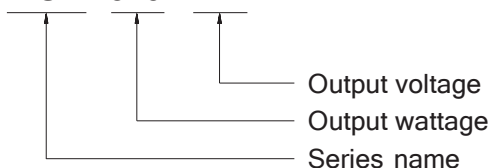
- Universal AC input / Full range
- Built-in active PFC function
- High efficiency up to 90%
- Forced air cooling by built-in DC Fan with fan speed control function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Optional conformal coating
- LED indicator for power on
- 3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

■ Description

RSP-320-4 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

RSP - 320 - 4



■ 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>



320W Single Output with PFC Function

RSP-320-4

SPECIFICATION

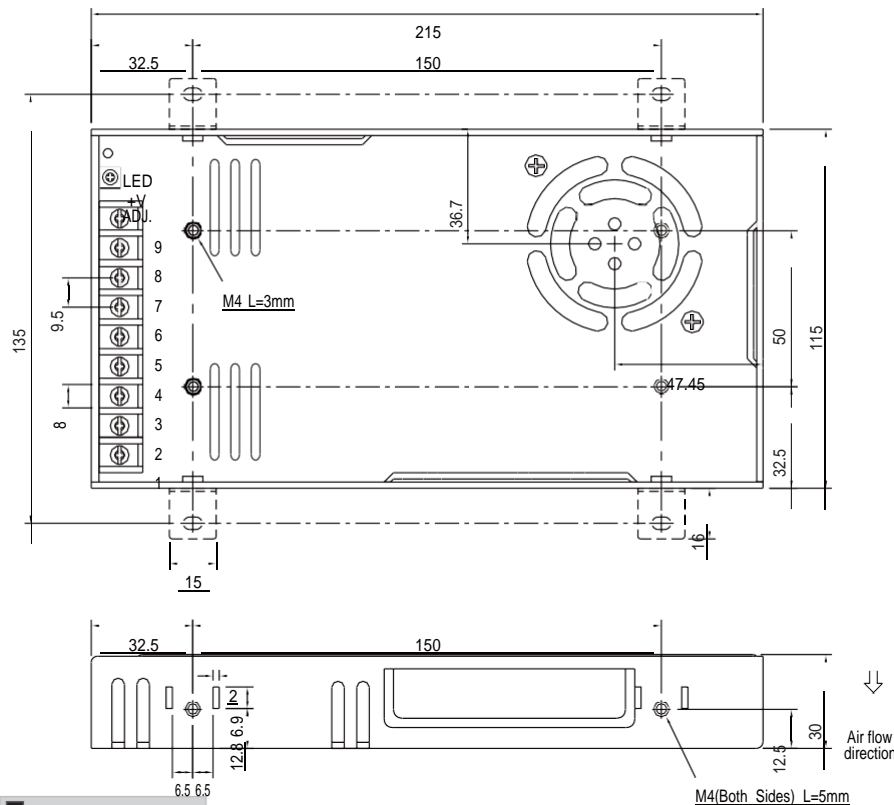
MODEL		RSP-320-5			
OUTPUT	DC VOLTAGE	4V			
	RATED CURRENT	60A			
	CURRENT RANGE	0 ~ 60A			
	RATED POWER	240W			
	RIPPLE & NOISE (max.) <small>Note.2</small>	100mVp-p			
	VOLTAGE ADJ. RANGE	3.7 ~ 4.3V			
	VOLTAGE TOLERANCE <small>Note.3</small>	± 2.0%			
	LINE REGULATION	± 0.5%			
	LOAD REGULATION	± 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 <small>Note.4</small>	88 ~ 264VAC 124 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load			
	EFFICIENCY (Typ.)	81%			
	AC CURRENT (Typ.)	2.7A/115VAC 1.5 A/230VAC		4A/115VAC	2A/230VAC
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC			
	LEAKAGE CURRENT	<1mA / 240VAC			
PROTECTION	OVERLOAD	105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	4.5~ 5.3V 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℃ (Refer to "Derating Curve")		
WORKING HUMIDITY		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 <small>(Note 5)</small>	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			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH			
	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℃)			
	DIMENSION	215*115*30mm (L*W*H)			
	PACKING	0.9Kg; 15pcs/14.5Kg/0.67CUFT			
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 0.1 μ F & 47 μ F 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 https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) 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℃/1000m with fanless models and of 5℃/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

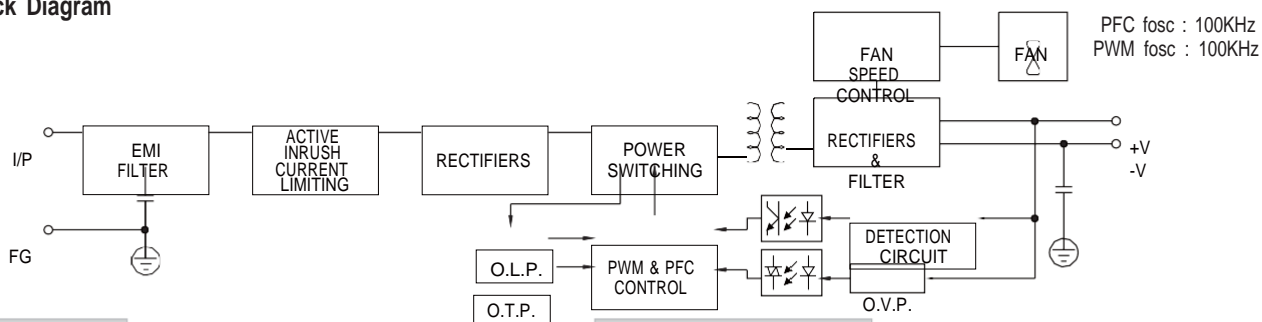
Mechanical Specification

Case No.207A

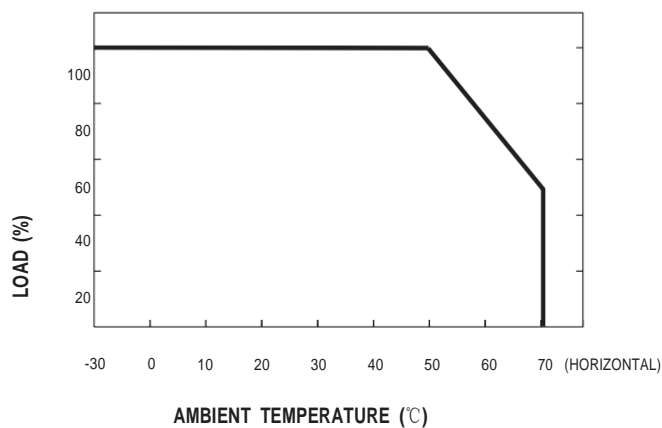
Unit:mm



Block Diagram



Derating Curve



Static Characteristics

