







Features



















CNS14336-1

- · Universal AC input / Full range
- · Built-in active PFC function
- · High efficiency up to 90%
- Cooling by free air convection
- 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

■ Description

RSP-200 is a 200W 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 free air convection, working for the temperature up to 70°C.

■ Model Encoding / Order Information





SPECIFICATION

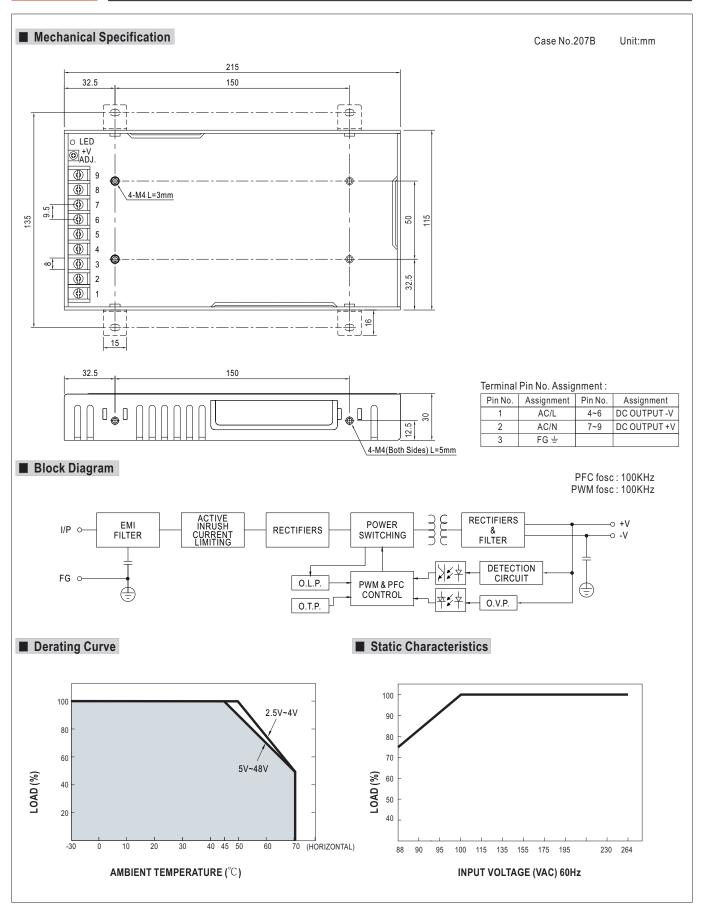
MODEL		RSP-200-2.5	RSP-200-3.3	RSP-200-4	RSP-200-5	RSP-200-7.5	RSP-200-12		
	DC VOLTAGE	2.5V	3.3V	4V	5V	7.5V	12V		
	RATED CURRENT	40A	40A	40A	40A	26.7A	16.7A		
	CURRENT RANGE	0 ~ 40A	0 ~ 40A	0 ~ 40A	0 ~ 40A	0 ~ 26.7A	0 ~ 16.7A		
	RATED POWER	100W	132W	160W	200W	200.25W	200.4W		
	RIPPLE & NOISE (max.) Note.2		100mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p		
OUTPUT	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%	±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 230		omo, i i o vi to at i an	1000				
	, , , ,								
	FREQUENCY RANGE								
	POWER FACTOR (Typ.)	47 ~ 63Hz PF>0.95/230VAC PF>0.98/115VAC at full load							
NPUT	EFFICIENCY (Typ.)	79.5%	81.5%	84%	85.5%	89%	89%		
NFUI			A/230VAC	04 /0	2.5A/115VAC	1.3A/230VAC	09 /0		
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)		0A/230VAC		2.5A/115VAC	1.3A/230VAC			
	LEAKAGE CURRENT	<1mA/240VAC	JA/230VAC						
	LEAKAGE CURRENT								
	OVERLOAD	105 ~ 135% rated output power							
							40.0 40.01/		
ROTECTION	OVER VOLTAGE	2.88 ~ 3.5V	3.8 ~ 4.62V	4.5 ~ 5.6V	5.75 ~ 7V	9.4 ~ 10.9V	13.8 ~ 16.2V		
		Protection type : Sh		<u> </u>					
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down							
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
NVIRONMENT		-40 ~ +85°C, 10 ~ 95							
	TEMP. COEFFICIENT	±0.03%/°C (0~45°	-						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004, CCC GB4943.1, BSMI CNS14336-1, AS/NZS 60950.1 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 EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020, CNS13438, GB9254 Class B, GB17625.1							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020							
	MTBF	224.5K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	215*115*30mm (L*W*H)							
	PACKING	0.72Kg; 15pcs/11.8Kg/0.78CUFT							
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 0.1uf & 47uf 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. 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) For charging related applications, please consult Mean Well for details. Strongly recommended that external output capacitance should not exceed 5000uF. (Only for: RSP-200-2.5/-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). 								



SPECIFICATION

MODEL		RSP-200-13.5	RSP-200-15	RSP-200-24	RSP-200-27	RSP-200-36	RSP-200-48		
	DC VOLTAGE	13.5V	15V	24V	27V	36V	48V		
	RATED CURRENT	14.9A	13.4A	8.4A	7.5A	5.56A	4.2A		
	CURRENT RANGE	0 ~ 14.9A	0 ~ 13.4A	0 ~ 8.4A	0 ~ 7.5A	0 ~ 5.56A	0 ~ 4.2A		
	RATED POWER	201.15W	201W	201.6W	202.5W	200.16W	201.6W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	220mVp-p	240mVp-p		
OUTPUT	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%		
	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/230		50ms/115VAC at full					
	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.)	89%	89.5%	89.5%	89%	90%	90%		
	AC CURRENT (Typ.)		1.3A/230VAC	03.370	0070	3070	3070		
	INRUSH CURRENT (Typ.)		10A/230VAC						
	LEAKAGE CURRENT	<1mA / 240VAC	10/1/230 V/// 0						
	LEARAGE CORRENT		utnut nower						
	OVERLOAD	105 ~ 135% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION		71	T '				E0.4 - 60V		
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							
	OVER TEMPERATURE	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							
	WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing							
ENVIDONMENT.	WORKING HUMIDITY								
ENVIRONMENT	STORAGE TEMP., HUMIDITY								
	TEMP. COEFFICIENT	±0.03%/°C (0~45°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004, CCC GB4943.1, BSMI CNS14336-1, AS/NZS 60950.1 approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
EMC (Note 5)	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
(Note 3)		Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3,EAC TP TC 020, CNS13438, GB9254 Class B, GB17625.1							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020							
	MTBF	224.5K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	215*115*30mm (L*W*H)							
	PACKING	0.72Kg; 15pcs/11.8h	Kg/0.78CUFT						
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 0.1uf & 47uf 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 http://www.meanwell.com) For charging related applications, please consult Mean Well for details. Strongly recommended that external output capacitance should not exceed 5000uF. (Only for: RSP-200-2.5/-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). 								









Declaration of Conformity

For the following equipment:		
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For the following equipment:								
Product Name: Switching Power Supply								
Model Designation: RSP-200-x; RSP-320-x (x=2.5,3.3,4,4.2,5,7.5,12,13.5,15,24,27,36,48)								
is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied:								
RoHS Directive (2011	/65/EU)、(EU)2015/863							
Low Voltage Directive (2014/35/EU):								
EN62368-1:2014+A11	, ,	TUV certificate No	R50442528					
Electromagnetic Compatibility Directive (2014/30/EU): EMI (Electro-Magnetic Interference) Conducted emission / Radiated emission EN55032:2015 Class B								
Harmonic current	EN61000-3-2:2014							
Voltage flicker	EN61000-3-3:2013							
EMS (Electro-Magnetic S	usceptibility)							
EN55024:2010+A1:2015								
ESD air	EN61000-4-2:2009	Level 3	8KV					
ESD contact	EN61000-4-2:2009	Level 2	4KV					
RF field susceptibility	EN61000-4-3:2006+A1:2008+	-A2:2010 Level 2	3V/m					
EFT bursts	EN61000-4-4:2012	Level 2	1KV/5KHz					
Surge susceptibility	EN61000-4-5:2014	Level 3	1KV/Line-Line					
Surge susceptibility	EN61000-4-5:2014	Level 3	2KV/Line-Earth					
Conducted susceptibility	EN61000-4-6:2014	Level 2	3V					
Magnetic field immunity	EN61000-4-8:2010	Level 2	3A/m					
Voltage dip, interruption	EN61000-4-11:2004 >95% dip 0.	5 periods 30% dip 25 per	iods >95% interruptions 250 periods					
Note: A component power supply with load will be installed into final equipment which consists of an electronically shielded metal enclosure. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. The EMC tests mentioned above are performed using a well defined metal plate to simulate said metal enclosure. 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)" and TDF (Technical Documentation File).								
This Declaration is effective from serial number EB9xxxxxxx								
Person responsible for marking this declaration:								
MEAN WELL Enterprises Co., Ltd. (Manufacturer Name)								
No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 24891, Taiwan (Manufacturer Address)								
Johnny Huang/Manager, Certific (Name / Position)	cation Center : Olum (Signature)	Alex Tsai/Director, Marketing Department : (Signature)						
Taiwan (Place)	Jul.22nd, 2019 (Date)							