

RSP-200 series



215 * 115 * 30 mm

































- · 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

■ GTIN CODE

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

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





RSP-200 series

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				
OUTPUT	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	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%	±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 /	88 ~ 264VAC 124 ~ 370VDC									
	FREQUENCY RANGE										
	POWER FACTOR (Typ.)	47 ~ 63Hz PF>0.95/230VAC PF>0.98/115VAC at full load									
INPUT	(• • • •	79.5%	81.5%	84%	85.5%	89%	89%				
INFUI	EFFICIENCY (Typ.)			04 /0			09 /0				
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)	2A/115VAC 1.1A/230VAC 2.5A/115VAC 1.3A/230VAC 2.5A/115VAC 40A/230VAC									
			UA/230 VAC								
	LEAKAGE CURRENT	<1mA / 240VAC									
PROTECTION	OVER VOLTAGE	105 ~ 135% rated output power									
		Protection type: Hiccup mode, recovers automatically after fault condition is removed									
		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: 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")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
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 BS EN/EN62368-1, EAC TP TC 004, CCC GB4943.1,BSMI CNS15598-1, AS/NZS 60950.1, Dekra EN 61558-1/2-16,IEC 61558-1/2-16(for 12V or higher models), BIS IS13252(Part1): 2010/IEC 60950-1:2005(except for 2.5V,4V,48V) 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 /	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, CNS15936, 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									
	MTBF	2078.1K hrs min. Telcordia SR-332 (Bellcore) ; 224.5K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	215*115*30mm (L*W*H)									
	PACKING	0.72Kg; 15pcs/11.8Kg/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. 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-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). Some model may not have the BIS logo, please contact your MEAN WELL sales for more information. 										
	9. Some model may not have the BIS logo, please contact your MEAN WELL sales for more information. ** Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx										



RSP-200 series

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			
ОИТРИТ	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	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%			
	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								
		88 ~ 264VAC 124 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.95/230VAC	PF>0.98/115V			1	1			
INPUT	EFFICIENCY (Typ.)	89%	89.5%	89.5%	89%	90%	90%			
	AC CURRENT (Typ.)	2.5A/115VAC 1.3A/230VAC								
	INRUSH CURRENT (Typ.)	20A/115VAC 4	10A/230VAC							
	LEAKAGE CURRENT	<1mA/240VAC								
	OVERLOAD	105 ~ 135% rated output power								
		Protection type : Hi	ccup mode, recove	rs automatically after	r fault condition is ren	noved				
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: 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 (0~45°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL62368-1,TUV BS EN/EN62368-1, EAC TP TC 004, CCC GB4943.1,BSMI CNS15598-1, AS/NZS 60950.1, Dekra EN 61558-1/2-16,IEC 61558-1/2-16(for 12V or higher models), BIS IS13252(Part1): 2010/IEC 60950-1:2005(except for 2.5V,4V,48V) 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, CNS15936, GB9254 Class B, GB17625.								
	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								
	MTBF	2078.1K hrs min. Telcordia SR-332 (Bellcore) ; 224.5K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	215*115*30mm (L*W*H)								
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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 capacidation. 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 it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplications 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-200-2.5/-3.3/-4/-5/-7.5/-12/-13.5/-18. 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). Some model may not have the BIS logo, please contact your MEAN WELL sales for more information. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 									



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