

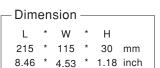
Simpex Electronic AG Binzackerstrasse 33 CH-8620 Wetzikon Telefon +41 44 931 10 30

www.simpex.ch contact@simpex.ch CHE-108.018.777 MWST



RSP-200 series

200W Single Output with PFC Function

























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%
- 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 $88\sim264$ VAC 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			
OUTPUT	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	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								
INPUT	EFFICIENCY (Typ.)	79.5%	81.5%	84%	85.5%	89%	89%			
-	AC CURRENT (Typ.)		A/230VAC		2.5A/115VAC	1.3A/230VAC				
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC								
	LEAKAGE CURRENT	<1mA/240VAC								
	OVERLOAD	105 ~ 135% rated output power								
			•	s automatically after f	ault condition is remo	ved				
PROTECTION	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			
THOTEOTION						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								
ENVIRONMENT	WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	00								
	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 CNS14336-1, AS/NZS 60950.1, 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								
	ISOLATION RESISTANCE	0.5								
EMC (Note 5)	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
(,	EMC IMMUNITY	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13438, GB9254 Class B, GB17625. Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020								
	MTBF	20								
OTHERS	DIMENSION									
	PACKING	215*115*30mm (L*W*H) 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 0.1uf & 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/-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). Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 									



SPECIFICATION

MODEL		RSP-200-13.5	RSP-200-15	RSP-200-24	RSP-200-27	RSP-200-36	RSP-200-48			
OUTPUT	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			
	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								
	VOLTAGE RANGE Note.4	88 ~ 264VAC 124 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.95/230VAC	PF>0.98/115V	AC at full load						
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 40A/230VAC								
	LEAKAGE CURRENT	<1mA/240VAC								
	OVERLOAD	105 ~ 135% rated output power								
PROTECTION		Protection type: Hiccup mode, recovers automatically after fault condition is removed								
	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 voltag	e, re-power on to rec	over	•	·			
	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	· -40 ~ +85°C, 10 ~ 95% RH								
	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 CNS14336-1, AS/NZS 60950.1, 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.								
	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	2078.1K hrs min. Telcordia SR-332 (Bellcore) ; 224.5K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	215*115*30mm (L*\	W*H)			, ,				
	PACKING	0.72Kg; 15pcs/11.8k	(g/0.67CUFT							
NOTE	All parameters NOT spe Ripple & noise are meas Tolerance: includes set Derating may be needed The power supply is conit still meets EMC directi	sured at 20MHz of up tolerance, line d under low input v asidered a compon	bandwidth by us regulation and lo oltages. Please o ent which will be	ing a 12" twisted p ad regulation. check the derating installed into a fina	air-wire terminated curve for more det al equipment. The f	with a 0.1uf & 47uf ails.	f parallel capacitor. st be re-confirmed th			
	(as available on http://www.meanwell.com) 6. For charging related applications, please consult Mean Well for details.									

- 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-200-2.5/-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).
- $\label{thm:product} \begin{tabular}{ll} \put(0,0) \put(0$



