



























RoHS CNS14336-1

■ 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

■ 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				
ОИТРИТ	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									
INPUT	VOLTAGE RANGE Note.4	88 ~ 264VAC 124 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load									
	EFFICIENCY (Typ.)	79.5%	81.5%	84%	85.5%	89%	89%				
	AC CURRENT (Typ.)	2A/115VAC									
	INRUSH CURRENT (Typ.)	20A/115VAC 40A/230VAC									
	LEAKAGE CURRENT	<1mA/240VAC									
	OVERLOAD	105 ~ 135% rated output power									
		Protection type: Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION		2.88 ~ 3.5V	3.8 ~ 4.62V	4.5 ~ 5.6V	5.75 ~ 7V	9.4 ~ 10.9V	13.8 ~ 16.2V				
	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	-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 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)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
	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									
OTHERS	MTBF	224.5K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	215*115*30mm (L*W*H)									
	PACKING	0.72Kg; 15pcs/11.	BKg/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/-1 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				
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	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									
INPUT	VOLTAGE RANGE Note.4	88 ~ 264VAC 124 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load									
	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									
PROTECTION	OVERLOAD	105 ~ 135% rated output power									
		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 : Shu	ut down o/p voltage,	re-power on to recove	r	'					
	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	-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 & EMC (Note 5)	SAFETY STANDARDS	UL62368-1, TUV EN62368-1 ,EAC TP TC 004, CCC GB4943.1, BSMI CNS14336-1, AS/NZS 60950.1 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°C / 70% RH									
	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									
OTHERS	MTBF	224.5K hrs min. MIL-HDBK-217F (25°C)									
	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. 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). 										



