

- Dimension -

L \* W \* H 215 \* 115 \* 30 mm

8.46 \* 4.53 \* 1.18 inch





















TPTC004 IEC62368-1

#### 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

#### **■** 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





### **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	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								
		88 ~ 264VAC 124 ~ 370VDC								
	FREQUENCY RANGE									
	POWER FACTOR (Typ.)	47 ~ 63Hz PF>0.95/230VAC PF>0.98/115VAC at full load								
INPUT	EFFICIENCY (Typ.)	PF>0.95/230VAC 79.5%	81.5%	84%	85.5%	89%	89%			
			A/230VAC	04%	2.5A/115VAC	1.3A/230VAC	09%			
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)				2.5A/115VAC	1.3A/230VAC				
		20A/115VAC 40A/230VAC								
	LEAKAGE CURRENT	<1mA / 240VAC								
PROTECTION	OVERLOAD	105 ~ 135% rated output power								
							40.0 40.01/			
	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: 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	$\pm 0.03\%$ (°C (0 ~ 45°C)								
	VIBRATION	10 ~ 500Hz, 2G 10m	in./1cycle, 60min. e	ach along X, Y, Z axe	es					
	SAFETY STANDARDS	UL62368-1,TUV BS EN/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 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	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	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>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)</li> <li>For charging related applications, please consult Mean Well for details.</li> <li>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</li> <li>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).</li> </ol>									

※ 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			
	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	88~204VAC 124~370VDC 47~63Hz								
	POWER FACTOR (Typ.)	PF>0.95/230VAC	PF>0.98/115VA	C at full load						
INPUT	EFFICIENCY (Typ.)	89%	89.5%	89.5%	89%	90%	90%			
01	AC CURRENT (Typ.)		.3A/230VAC	00.070	0070	0070	00 /0			
	INRUSH CURRENT (Typ.)	2.5A/115VAC 1.5A/230VAC 1.5A/230VAC 40A/230VAC								
	LEAKAGE CURRENT	<1mA / 240VAC	0717200 4710							
	ELAKAGE GOKKENT									
	OVERLOAD	105 ~ 135% rated output power								
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			
						T1.T T0.0V	JU.4 UUV			
	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	· ·								
	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									
	WITHSTAND VOLTAGE	UL62368-1,TUV BS EN/EN62368-1, EAC TP TC 004, CCC GB4943.1,BSMI CNS14336-1, AS/NZS 60950.1 approved  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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3,EAC TP TC 020, CNS13438, GB9254 Class B, GB17625.1								
	EMC IMMUNITY									
OTHERS	MTBF	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020  2078.1K hrs min. Telcordia SR-332 (Bellcore) ; 224.5K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	2078.1K hrs min. Telcordia SR-332 (Bellcore) ; 224.5K hrs min. MIL-HDBK-217F (25°C)  215*115*30mm (L*W*H)								
	PACKING	,	,							
		0.72Kg; 15pcs/11.8K								
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>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)</li> <li>For charging related applications, please consult Mean Well for details.</li> <li>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)</li> <li>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).</li> <li>Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>									



