

## Dimension

L	*	W	*	H
215	*	115	*	30 mm
8.46	*	4.53	*	1.18 inch



User's Manual


 R33100  
RoHS  
CNS14336-1


AS/NZS60950-1



UL62368-1



BS EN/EN62368-1



(only for 5V)



GB4943.1



TPTC004

IEC62368-1

CNS14336-1

AS/NZS60950-1

UL62368-1

BS EN/EN62368-1

(only for 5V)

GB4943.1





200W Single Output with PFC Function

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
OUTPUT	DC VOLTAGE	2.5V	3.3V	4V	5V	7.5V
	RATED CURRENT	40A	40A	40A	40A	26.7A
	CURRENT RANGE	0 ~ 40A	0 ~ 40A	0 ~ 40A	0 ~ 26.7A	0 ~ 16.7A
	RATED POWER	100W	132W	160W	200W	200.25W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-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
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.3%
	LOAD REGULATION	±1.5%	±1.5%	±1.0%	±1.0%	±0.5%
	SETUP, RISE TIME	1500ms, 50ms/230VAC	3000ms, 50ms/115VAC at full load			
INPUT	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>0.98/115VAC at full load			
	EFFICIENCY (Typ.)	79.5%	81.5%	84%	85.5%	89%
	AC CURRENT (Typ.)	2A/115VAC	1.1A/230VAC		2.5A/115VAC	1.3A/230VAC
	INRUSH CURRENT (Typ.)	20A/115VAC	40A/230VAC			
PROTECTION	LEAKAGE CURRENT	<1mA / 240VAC				
	OVERLOAD	105 ~ 135% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	2.88 ~ 3.5V	3.8 ~ 4.62V	4.5 ~ 5.6V	5.75 ~ 7V	9.4 ~ 10.9V
ENVIRONMENT	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover				
	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)				
SAFETY & EMC (Note 5)	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 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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2, -3, EAC TP TC 020, CNS13438, GB9254 Class B, GB17625.1				
OTHERS	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)				
	DIMENSION	215*115*30mm (L*W*H)				
NOTE	PACKING	0.72Kg; 15pcs/11.8Kg/0.67CUFT				
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltages. Please check the derating curve for more details. 5. 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a> ) 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). ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>					



200W Single Output with PFC Function

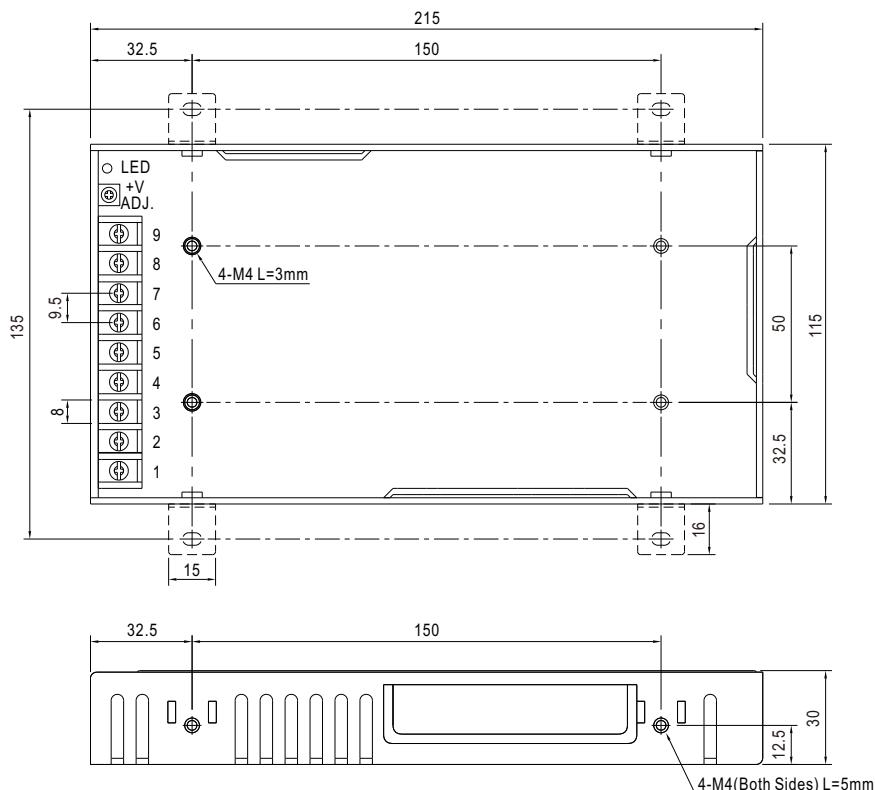
RSP-200 series

## 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
	RATED CURRENT	14.9A	13.4A	8.4A	7.5A	5.56A
	CURRENT RANGE	0 ~ 14.9A	0 ~ 13.4A	0 ~ 8.4A	0 ~ 7.5A	0 ~ 5.56A
	RATED POWER	201.15W	201W	201.6W	202.5W	200.16W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	220mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 15V	13.5 ~ 18V	20 ~ 26.4V	26 ~ 31.5V	32.4 ~ 39.6V
	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%
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1500ms, 50ms/230VAC	3000ms, 50ms/115VAC at full load			
INPUT	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>0.98/115VAC at full load			
	EFFICIENCY (Typ.)	89%	89.5%	89.5%	89%	90%
	AC CURRENT (Typ.)	2.5A/115VAC	1.3A/230VAC			
	INRUSH CURRENT (Typ.)	20A/115VAC	40A/230VAC			
PROTECTION	LEAKAGE CURRENT	<1mA / 240VAC				
	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
ENVIRONMENT	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover				
	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)				
SAFETY & EMC (Note 5)	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 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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,3, EAC TP TC 020, CNS13438, GB9254 Class B, GB17625.1				
OTHERS	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)				
	DIMENSION	215*115*30mm (L*W*H)				
NOTE	PACKING	0.72Kg; 15pcs/11.8Kg/0.67CUFT				
	1.	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.				
	2.	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.				
	3.	Tolerance : includes set up tolerance, line regulation and load regulation.				
	4.	Derating may be needed under low input voltages. Please check the derating curve for more details.				
	5.	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 <a href="http://www.meanwell.com">http://www.meanwell.com</a> )				
	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).				
	※	Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>				

## ■ Mechanical Specification

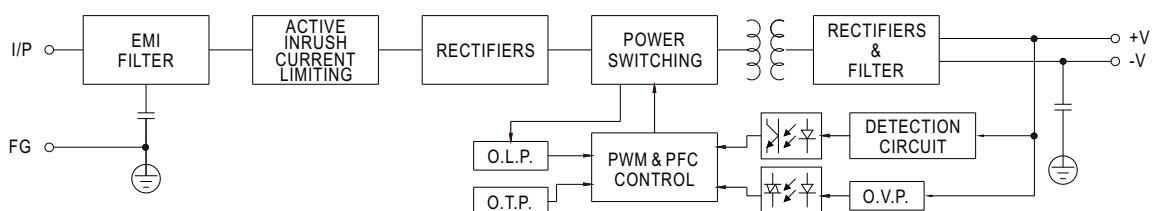
Case No.207B Unit:mm



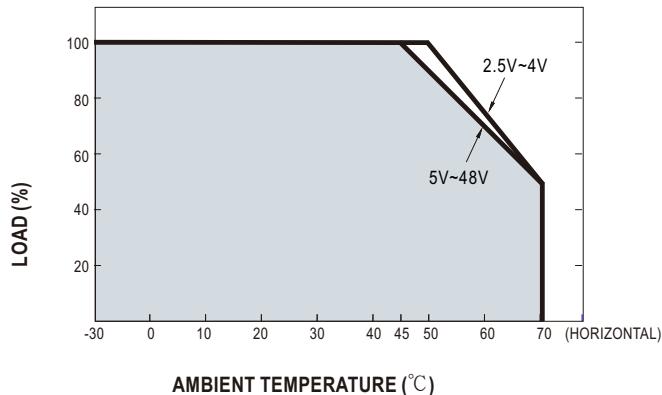
## Terminal Pin No. Assignment :

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4~6	DC OUTPUT-V
2	AC/N	7~9	DC OUTPUT+V
3	FG $\pm$		

## ■ Block Diagram

 PFC fosc : 100KHz  
 PWM fosc : 100KHz


## ■ Derating Curve



## ■ Static Characteristics

