



200W Single Output with PFC Function

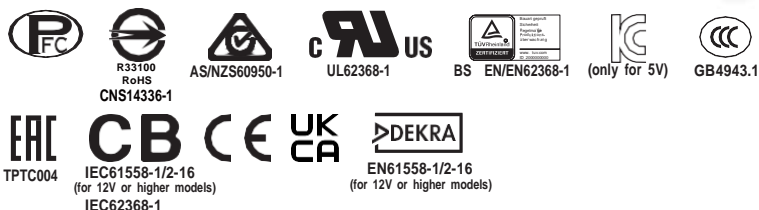
# RSP-200-5

User's Manual



## Dimension

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



## ■ 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

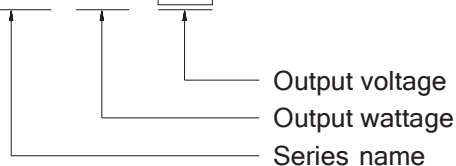
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

## ■ Description

RSP-200-5 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 - 5





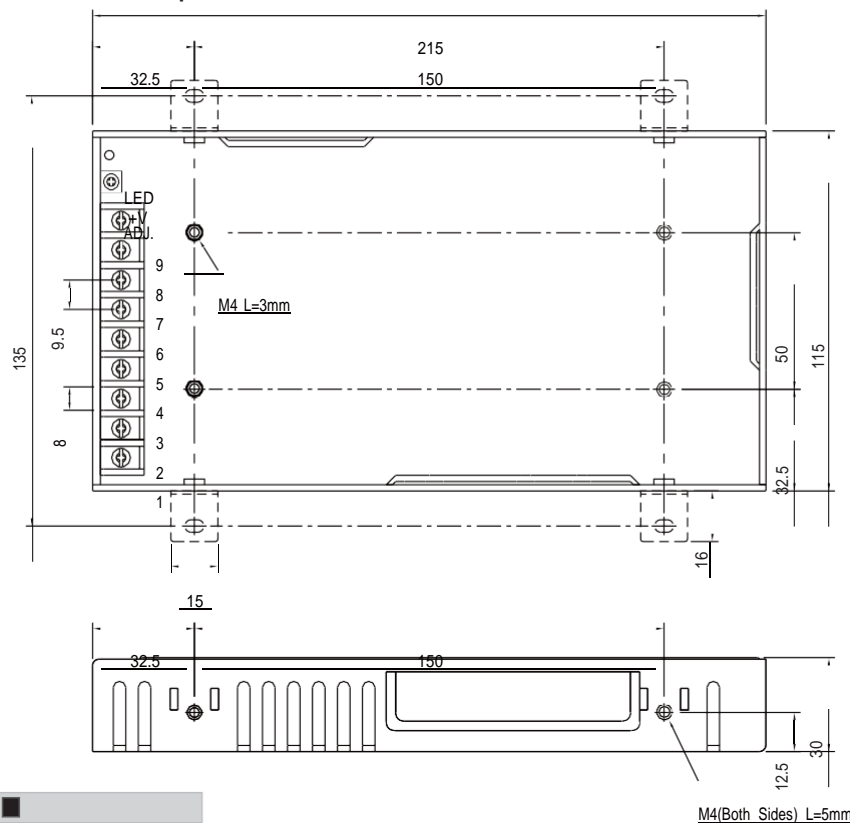
## SPECIFICATION

MODEL		RSP-200-5			
OUTPUT	DC VOLTAGE	5V			
	RATED CURRENT	40A			
	CURRENT RANGE	0 ~ 40A			
	RATED POWER	200W			
	RIPPLE & NOISE (max.) <small>Note.2</small>	150mVp-p			
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V			
	VOLTAGE TOLERANCE <small>Note.3</small>	± 2.0%			
	LINE REGULATION	± 0.5%			
	LOAD REGULATION	± 1.0%			
	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 <small>Note.4</small>	88 ~ 264VAC		124 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.95/230VAC		PF>0.98/115VAC at full load	
	EFFICIENCY (Typ.)	85.5%			
	AC CURRENT (Typ.)	2A/115VAC	1.1A/230VAC	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	5.75 ~ 7V 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℃ (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 45℃)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
SAFETY & EMC (Note 5)	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			
	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℃/ 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	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℃)			
	DIMENSION	215*115*30mm (L*W*H)			
	PACKING	0.72Kg; 15pcs/11.8Kg/0.67CUFT			
NOTE	<div>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.</div> <div>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F &amp; 47 μ F parallel capacitor.</div> <div>3. Tolerance : includes set up tolerance, line regulation and load regulation.</div> <div>4. Derating may be needed under low input voltages. Please check the derating curve for more details.</div> <div>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="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )</div> <div>6. For charging related applications, please consult Mean Well for details.</div> <div>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)</div> <div>8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).</div> <div>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></div>				

## Mechanical Specification

Case No.207B

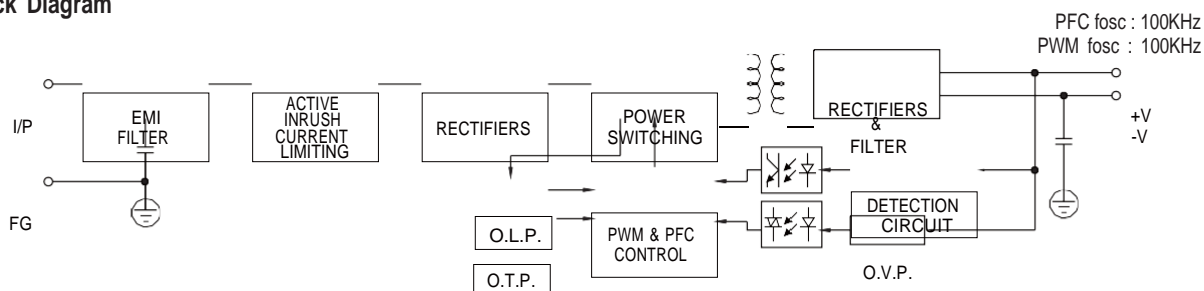
Unit:mm



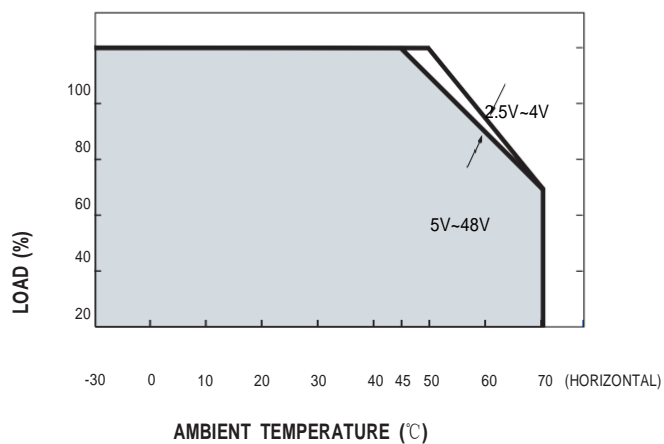
Terminal Pin No. Assignment :

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

### Block Diagram



### Derating Curve



## Static Characteristics

