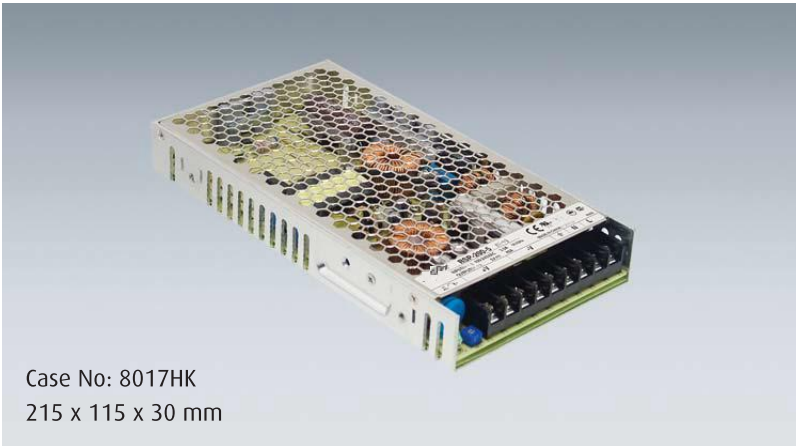


# RSP-200 Series

## 200W Single Output Enclosed Power Supply with PFC



Case No: 8017HK  
215 x 115 x 30 mm

### Features

- Universal AC input/ full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit/Overload/Over voltage/Over temp
- Cooling by free air convection
- 1U low profile 30mm
- Optional conformal coating models (RSP-200-CC)
- LED indicator for power on



### Specification

<b>INPUT</b>	<b>Voltage</b>	88V ~ 264VAC universal full range or 124V ~ 370VDC					
	<b>Frequency</b>	47 ----- 63 Hz					
	<b>Current</b>	2A@115VAC, 1.1A@230VAC					
	<b>Inrush Current</b>	<20A@115V , <40A@230VAC input					
	<b>Leakage Current</b>	<1.0mA@240VAC input					
<b>OUTPUT</b>	<b>MODEL No.</b>	<b>RSP-200-2.5</b>	<b>RSP-200-3.3</b>	<b>RSP-200-4</b>	<b>RSP-200-5</b>	<b>RSP-200-7.5</b>	<b>RSP-200-12</b>
	<b>Voltage</b>	2.5V	3.3V	4V	5V	7.5V	12V
	<b>Rated Load</b>	40A	40A	40A	40A	26.7A	16.7A
	<b>Current Range</b>	0~40A	0~40A	0~40A	0~40A	0~26.7A	0~16.7A
	<b>Voltage Adj. Range</b>	2.35~2.85V	2.97~3.8V	3.7~4.3V	4.5~5.5V	6~9V	10~13.2V
	<b>Output Tolerance</b>	± 2%	± 2%	± 2%	± 2%	± 2%	± 1%
	<b>Line Regulation</b>	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.3%
	<b>Load Regulation</b>	± 1.5%	± 1.5%	± 1%	± 1%	± 1%	± 0.5%
	<b>Ripple Noise MAX.</b>	100mV	100mV	100mV	150mV	150mV	150mV
	<b>Efficiency (TYP.)</b>	81.5%	84%	85.5%	87%	89%	89%
<b>PROTECTION</b>	<b>Power</b>	100W	132W	160W	200W	200.25W	200.4W
	<b>Over Voltage</b>	2.88~3.5V	3.8~4.62V	4.5~5.6V	5.75~7V	9.4~10.9V	13.8~16.2V
		Shut down o/p voltage, re-power on to recover					
	<b>Over Temperature</b>	120°C±5°C, 110°C±5°C (7.5V, 12V) (TSW1) detect on heatsink of power transistor					
		Shutdown o/p voltage, recovers automatically after temperature goes down					
<b>ELEC. CHAR.</b>	<b>Over Load</b>	105~135% rated output power; Hiccup mode, recovers automatically after fault condition is removed					
	<b>Rise Time</b>	<50mS@ 115~230VAC, full load					
	<b>Hold up Time</b>	>8mS@115~230VAC, full load					
<b>ENVIRONMENT</b>	<b>Setup Time</b>	<1.5 Sec@ 230VAC, 3.0 Sec@115VAC at full load					
	<b>Temperature</b>	Operating: -30 ~ +70°C ; Storage: -40~ +85°C					
<b>SAFETY</b>	<b>Humidity</b>	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% RH (non condensing)					
	<b>Withstand Voltage</b>	I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG:0.5KVAC, 1minute					
	<b>Isolation Resistance</b>	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC					
<b>EMC</b>	<b>Safety Standard</b>	UL60950-1; TUV EN60950-1 Approved					
	<b>EMI</b>	EN55022 (CISPR22) Class B; EN61000-3-2,3					
	<b>EMS</b>	EN61000-4-2,3,4,5,6,8,11; EN55024; light industry level, criteria A					
<b>OTHERS</b>	<b>Cooling</b>	Cooling by free air convection					
	<b>M.T.B.F.</b>	206.5K hrs min. MIL-HDBK-217F (25°C)					

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.

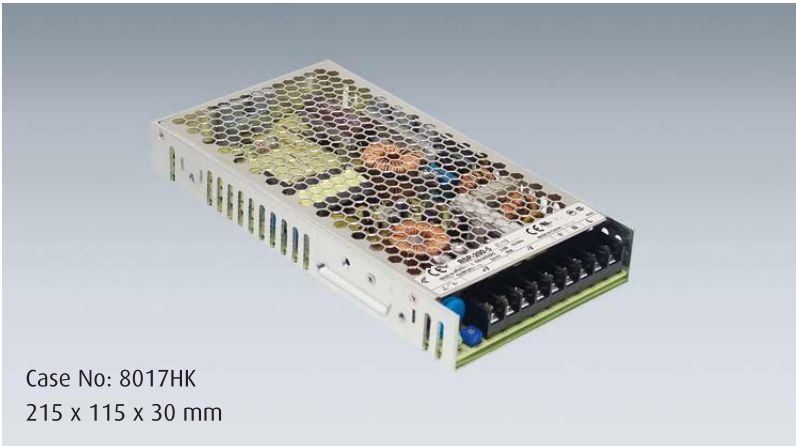
3 Tolerance : includes set up tolerance, line regulation and load regulation.

4 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.

5 Derating may be needed under low input voltages.

# RSP-200 Series

## 200W Single Output Enclosed Power Supply with PFC



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215 x 115 x 30 mm

### Features

- Universal AC input/ full range
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- Protections: Short circuit/Overload/Over voltage/Over temp
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- 1U low profile 30mm
- Optional conformal coating models (RSP-200-CC)
- LED indicator for power on



### Specification

<b>INPUT</b>	<b>Voltage</b>	88V ~ 264VAC universal full range or 124V ~ 370VDC					
	<b>Frequency</b>	47 ----- 63 Hz					
	<b>Current</b>	3.5A@115VAC, 1.7A@230VAC					
	<b>Inrush Current</b>	<20A@115V , <40A@230VAC input					
	<b>Leakage Current</b>	<1.0mA@240VAC input					
<b>OUTPUT</b>	<b>MODEL No.</b>	<b>RSP-200-13.5</b>	<b>RSP-200-15</b>	<b>RSP-200-24</b>	<b>RSP-200-27</b>	<b>RSP-200-36</b>	<b>RSP-200-48</b>
	<b>Voltage</b>	13.5V	15V	24V	27V	36V	48V
	<b>Rated Load</b>	14.9A	13.4A	8.4A	7.5A	5.56A	4.2A
	<b>Current Range</b>	0~14.9A	0~13.4A	0~8.4A	0~7.5A	0~5.56A	0~4.2A
	<b>Voltage Adj. Range</b>	12~15V	13.5~18V	20~26.4V	26~31.5V	32.4~39.6V	41~56V
	<b>Output Tolerance</b>	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
	<b>Line Regulation</b>	± 0.3%	± 0.3%	± 0.2%	± 0.2%	± 0.2%	± 0.2%
	<b>Load Regulation</b>	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	<b>Ripple Noise MAX.</b>	150mV	150mV	150mV	200mV	200.16mV	201.6mV
	<b>Efficiency (TYP.)</b>	89%	89.5%	89.5%	89%	90%	90%
<b>PROTECTION</b>	<b>Power</b>	201.15W	201W	201.6W	202.5W	200.16W	201.6W
	<b>Over Voltage</b>	15.7~18.4V	18.8~21.8V	27.6~32.4V	32.9~38.3V	41.4~48.6V	58.4~68V
		Shut down o/p voltage, re-power on to recover					
	<b>Over Temperature</b>	120°C±5°C, 110°C±5°C (7.5V, 12V) (TSW1) detect on heatsink of power transistor					
		Shutdown o/p voltage, recovers automatically after temperature goes down					
<b>ELEC. CHAR.</b>	<b>Over Load</b>	105~135% rated output power; Hiccup mode, recovers automatically after fault condition is removed					
	<b>Rise Time</b>	<50mS@ 115~230VAC, full load					
	<b>Hold up Time</b>	>8mS@115~230VAC, full load					
<b>ENVIRONMENT</b>	<b>Setup Time</b>	<1.5 Sec@ 230VAC, 3.0 Sec@115VAC at full load					
	<b>Temperature</b>	Operating: -30 ~ +70°C ; Storage: -40~ +85°C					
<b>SAFETY</b>	<b>Humidity</b>	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% RH (non condensing)					
	<b>Withstand Voltage</b>	I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG:0.5KVAC, 1minute					
	<b>Isolation Resistance</b>	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC					
<b>EMC</b>	<b>Safety Standard</b>	UL60950-1; TUV EN60950-1 Approved					
	<b>EMI</b>	EN55022 (CISPR22) Class B; EN61000-3-2,3					
<b>OTHERS</b>	<b>EMS</b>	EN61000-4-2,3,4,5,6,8,11; EN55024; light industry level, criteria A					
	<b>Cooling</b>	Cooling by free air convection					
	<b>M.T.B.F.</b>	206.5K hrs min. MIL-HDBK-217F (25°C)					

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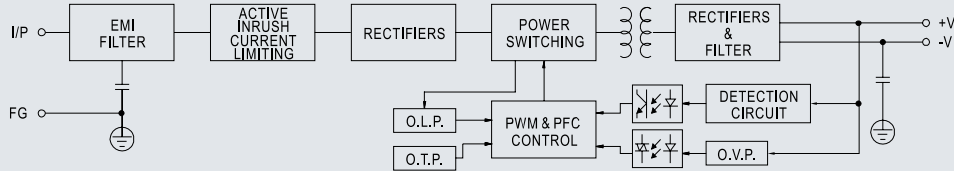
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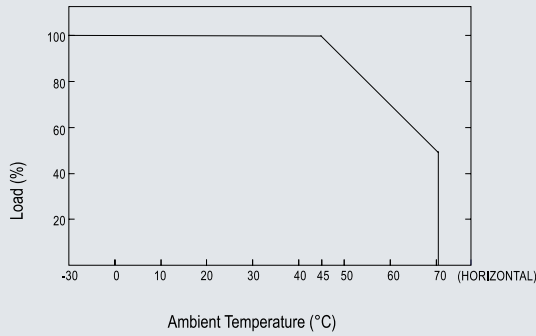
# RSP-200 Series

200W Single Output Enclosed Power Supply with PFC

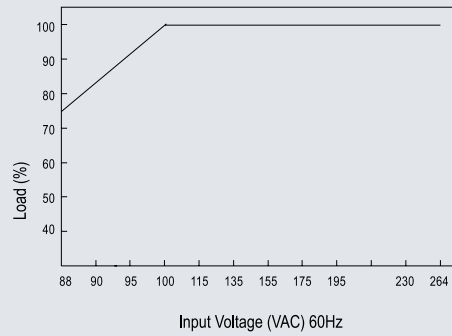
## Block Diagram



## De-Rating Curve



## Static Characteristics



## Dimensions

Pin No. No Assignment:

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

