

# RSP Series 75W~3000W Single Output with PFC function



## Power Supply Features

- **Ultra low profile: 30mm**
- Universal AC input / Full range
- Active PFC (Power Factor Correction)
- Protection: Short circuit / Overload / Over voltage / Over temperature (RSP-100/150/200)
- Cooling by free air convection
- Extensive range of voltages 3.3V to 48V
- Constant current limiting (RSP-75/100/150)
- Remote ON/OFF control (RSP-75/100/150)
- LED indicator for power on
- **DIN Rail mounting hardware available!**
- **3 year warranty**

## General Specifications (Please refer to [www.procontechtechnology.com.au](http://www.procontechtechnology.com.au) for detailed specs)



Model No.	RSP-75	RSP-100	RSP-150	RSP-200
AC input voltage range	85~264VAC; 120~370VDC			88~264VAC; 124~370VDC
AC inrush current (max.)	Cold start, 35A at 230VAC	30A at 230VAC	45A at 230VAC	40A at 230VAC
DC adjustment range	-5% ~ +10% rated output voltage			Up to ±20% rated output voltage (see data sheet)
Overload protection	Range	105~135%	105~150%	
	Type	Constant current limiting, auto-recovery		Hiccup mode, auto-recovery
Over voltage protection	Range	110~135%		115~145%
	Type	Shut down O/P voltage, re-power on to recover		
Withstand voltage	I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, OVC III			I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature	-25°C ~ +70°C		-30°C ~ +70°C (refer to output derating curve)	
Safety standards	UL60950-1, TUV EN60950-1, EN61558-1, EN61558-2-16, CCC GB4943, EAC TP TC 004, <b>UL62368-1 (RSP-150 only)</b> approved;			UL60950-1, TUV EN60950-1, CCC GB4943, EAC TP TC 004 approved
EMC standards	EN55032 (CISPR32) class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, GB9254, EAC TP TC 020			
Connection	5P / 9.5mm pitch terminal block	7P / 9.5mm pitch terminal block		9P / 9.5mm pitch terminal block
Dimensions (LxWxH)	159x97x30mm	179x99x30mm	199x99x30mm	215x115x30mm
Weight	0.44kg	0.52kg	0.6kg	0.72kg

75W		RSP-75		
Model No.	Output	Tol.	R&N	Eff.
RSP-75-3.3	3.3V, 0~15A	±2%	80mV	76.0%
RSP-75-5	5V, 0~15A	±2%	80mV	82.0%
RSP-75-7.5	7.5V, 0~10A	±2%	80mV	84.0%
RSP-75-12	12V, 0~6.3A	±2%	120mV	85.0%
RSP-75-13.5	13.5V, 0~5.6A	±2%	120mV	85.0%
RSP-75-15	15V, 0~5A	±2%	120mV	86.0%
RSP-75-24	24V, 0~3.2A	±1%	120mV	87.0%
RSP-75-27	27V, 0~2.8A	±1%	120mV	88.0%
RSP-75-48	48V, 0~1.6A	±1%	200mV	89.0%

150W		RSP-150		
Model No.	Output	Tol.	R&N	Eff.
RSP-150-3.3	3.3V, 0~30A	±2%	100mV	81.5%
RSP-150-5	5V, 0~30A	±2%	100mV	87.0%
RSP-150-7.5	7.5V, 0~20A	±2%	100mV	88.5%
RSP-150-12	12V, 0~12.5A	±2%	100mV	90.0%
RSP-150-13.5	13.5V, 0~11.2A	±2%	100mV	87.5%
RSP-150-15	15V, 0~10A	±2%	100mV	88.5%
RSP-150-24	24V, 0~6.3A	±1%	150mV	89.0%
RSP-150-27	27V, 0~5.6A	±1%	150mV	89.5%
RSP-150-48	48V, 0~3.2A	±1%	250mV	90.0%

100W		RSP-100		
Model No.	Output	Tol.	R&N	Eff.
RSP-100-3.3	3.3V, 0~20A	±2%	100mV	83.0%
RSP-100-5	5V, 0~20A	±2%	100mV	86.0%
RSP-100-7.5	7.5V, 0~13.5A	±2%	100mV	87.0%
RSP-100-12	12V, 0~8.5A	±1%	100mV	86.0%
RSP-100-13.5	13.5V, 0~7.5A	±1%	100mV	86.5%
RSP-100-15	15V, 0~6.7A	±1%	100mV	87.0%
RSP-100-24	24V, 0~4.2A	±1%	150mV	87.0%
RSP-100-27	27V, 0~3.8A	±1%	150mV	87.0%
RSP-100-48	48V, 0~2.1A	±1%	250mV	88.0%

200W		RSP-200		
Model No.	Output	Tol.	R&N	Eff.
RSP-200-2.5	2.5V, 0~40A	±2%	100mV	79.5%
RSP-200-3.3	3.3V, 0~40A	±2%	100mV	81.5%
RSP-200-4	4V, 0~40A	±2%	100mV	84.0%
RSP-200-5	5V, 0~40A	±2%	150mV	85.5%
RSP-200-7.5	7.5V, 0~26.7A	±2%	150mV	89.0%
RSP-200-12	12V, 0~16.7A	±1%	150mV	89.0%
RSP-200-13.5	13.5V, 0~14.9A	±1%	150mV	89.0%
RSP-200-15	15V, 0~13.4A	±1%	150mV	89.5%
RSP-200-24	24V, 0~8.4A	±1%	150mV	89.5%
RSP-200-27	27V, 0~7.5A	±1%	200mV	89.0%
RSP-200-36	36V, 0~5.56A	±1%	220mV	90.0%
RSP-200-48	48V, 0~4.2A	±1%	240mV	90.0%

# RSP Series 75W~3000W Single Output with PFC function



RSP-750

RSP-500

RSP-320

## Power Supply Features

- **1U low profile: 41mm (30mm RSP-320)**
- Universal AC input / Full range
- Built-in active PFC (Power Factor Correction)
- Protection: Short circuit / Overload / Over voltage / Over temp. / Fan alarm (RSP-750)
- Forced air cooling by built-in DC fan
- Vo can be trimmed 40~110% by 2~5.5VDC external control signal (RSP-750)
- Io can be trimmed 40~110% by 2~5.5VDC external control signal (RSP-750)
- Built-in remote sense and ON/OFF control (RSP-500/RSP-750)
- Built-in auxiliary power (RSP-750)
- DC OK signal (RSP-750)
- LED indicator for power on
- **3 year warranty / 5 year warranty (RSP-750)**

## General Specifications (Please refer to [www.procontechtechnology.com.au](http://www.procontechtechnology.com.au) for detail specs)



Model No.	RSP-320	RSP-500	RSP-750
AC input voltage range	88~264VAC; 124~370VDC	85~264VAC; 120~370VDC	90~264VAC; 127~370VDC
AC inrush current (max.)	Cold start, 40A at 230VAC		
DC adjustment range	Up to $\pm 20\%$ rated output voltage (see data sheet)		$\pm 10\%$ rated output voltage
Overload protection	Range	105~135%	105~130%
	Type	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery
Over voltage protection	Range	115~145%	
	Type	Shut down O/P voltage, re-power on to recover	
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Working temperature	-30°C ~ +70°C (refer to output derating curve)		
Safety standards	UL60950-1, TUV EN60950-1, EAC TP TC 004 approved; CCC GB4943 approved for RSP-320 only		
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (RSP-500/750), GB9254 (RSP-320 only), EAC TP TC 020 (not RSP-750)		
Connection	Input	9P / 9.5mm pitch terminal block	3P / 9.5mm pitch terminal block
	Output		6P / 11mm pitch terminal block
Dimensions (LxWxH)	215x115x30mm	230x127x40.5mm	250x127x41mm
Weight	0.9kg	1.3kg	1.64kg

### 320W

### RSP-320

Model No.	Output	Tol.	R&N	Eff.
RSP-320-2.5	2.5V, 0~60A	$\pm 2\%$	100mV	75.5%
RSP-320-3.3	3.3V, 0~60A	$\pm 2\%$	100mV	79.5%
RSP-320-4	4V, 0~60A	$\pm 2\%$	100mV	81.0%
RSP-320-5	5V, 0~60A	$\pm 2\%$	150mV	83.0%
*RSP-320-5CC	5V, 0~60A	$\pm 2\%$	150mV	83.0%
RSP-320-7.5	7.5V, 0~40A	$\pm 2\%$	150mV	88.0%
RSP-320-12	12V, 0~26.7A	$\pm 1\%$	150mV	88.0%
RSP-320-13.5	13.5V, 0~23.8A	$\pm 1\%$	150mV	88.0%
RSP-320-15	15V, 0~21.4A	$\pm 1\%$	150mV	88.5%
RSP-320-24	24V, 0~13.4A	$\pm 1\%$	150mV	89.0%
RSP-320-27	27V, 0~11.9A	$\pm 1\%$	200mV	89.0%
RSP-320-36	36V, 0~8.9A	$\pm 1\%$	220mV	89.5%
RSP-320-48	48V, 0~6.7A	$\pm 1\%$	240mV	90.0%

\* RSP-320-5CC with conformal coating is suitable for LED moving sign applications. Standard stocked model in Australia!

### 500W

### RSP-500

Model No.	Output	Tol.	R&N	Eff.
RSP-500-3.3	3.3V, 0~90A	$\pm 2\%$	120mV	81.0%
RSP-500-4	4V, 0~90A	$\pm 2\%$	120mV	83.0%
RSP-500-5	5V, 0~90A	$\pm 2\%$	150mV	83.0%
RSP-500-12	12V, 0~41.7A	$\pm 1\%$	150mV	89.0%
RSP-500-15	15V, 0~33.4A	$\pm 1\%$	150mV	88.0%
RSP-500-24	24V, 0~21A	$\pm 1\%$	150mV	89.0%
RSP-500-27	27V, 0~18.6A	$\pm 1\%$	150mV	89.5%
RSP-500-48	48V, 0~10.5A	$\pm 1\%$	150mV	90.5%

### 750W

### RSP-750

Model No.	Output	Tol.	R&N	Eff.
RSP-750-5	5V, 0~100A	$\pm 2\%$	150mV	82.0%
RSP-750-12	12V, 0~62.5A	$\pm 1\%$	150mV	87.0%
RSP-750-15	15V, 0~50A	$\pm 1\%$	150mV	89.0%
RSP-750-24	24V, 0~31.3A	$\pm 1\%$	150mV	90.5%
RSP-750-27	27V, 0~27.8A	$\pm 1\%$	150mV	90.5%
RSP-750-48	48V, 0~15.7A	$\pm 1\%$	150mV	92.0%

# RSP Series 75W~3000W Single Output with PFC function



## Power Supply Features

- Universal AC input (RSP-1000/1500/2000)  
AC input 180~264VAC (RSP-2400/3000)
- Built-in active PFC (Power Factor Correction)
- Protection:  
Short circuit / Overload / Over voltage /  
Over temperature / Fan alarm (RSP-2400/3000)
- Forced air cooling by built-in DC fan
- High power density up to 21.4W/in<sup>3</sup> (RSP-2000)
- **Vo can be trimmed by external resistor or external control signal**
- Parallel operation up to 8100W
- Built-in remote sense and ON/OFF control
- Built-in auxiliary power
- DC OK signal (RSP-1000/2000)
- Alarm signal output (RSP-1500/2000/2400/3000)
- **5 year warranty**

3 phase 5000W (RST-5000) and 10000W (RST-10000) power supplies now available!

## General Specifications (Please refer to [www.procontechology.com.au](http://www.procontechology.com.au) for detail specs)



Model No.	RSP-1000	RSP-1500	RSP-2000	RSP-2400	RSP-3000
AC input voltage range	90~264VAC; 127~370VDC			180~264VAC; 254~370VDC	
AC inrush current (max.)	Cold start, 40A at 230VAC	Cold start, 60A at 230VAC	Cold start, 50A at 230VAC	Cold start, 60A at 230VAC	
DC adjustment range	±10% rated output voltage	-30% ~ +10% rated output voltage	±10% rated output voltage		
Overload protection	Range	105~125%	105~135%	105~125%	100~112%
	Type	Constant current limiting, auto-recovery	Constant current limiting, shuts off after 5 sec., re-power on to recover		Constant current limiting, shuts off after 5 sec., re-power on to recover (user selectable continuous constant current limiting)
Over voltage protection	Range	115~135%	115~140%	120~145%	115~140%
	Type	Shut down O/P voltage, re-power on to recover			
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC				
Working temperature	-20°C ~ +60°C	-20°C ~ +70°C	-35°C ~ +70°C	-20°C ~ +70°C	
Safety standards	UL60950-1, TUV EN60950-1, EAC TP TC 004 approved				
EMC standards	EN55032 class A, class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11				
Connection	Input	3P/10mm pitch terminal block with cover	3P/13mm pitch terminal block with cover	3P/10mm pitch terminal block with cover	3P/13mm pitch terminal block with cover
	Output	M5x12 screw terminals	Bus bars with 8.5mm hole	M5x12 screw terminals	Bus bars with 8.5mm hole
Dimensions (LxWxH)	295x127x41mm	278x127x83.5mm	295x127x41mm	278x177.8x63.5mm	
Case No.	952B	943A	952D	982B	
Weight	1.95kg	3.0kg	1.95kg	3.3kg	4kg

1000W		RSP-1000		
Model No.	Output	Tol.	R&N	Eff.
RSP-1000-12	12V, 0~60A	±1%	150mV	83%
RSP-1000-15	15V, 0~50A	±1%	150mV	85%
RSP-1000-24	24V, 0~40A	±1%	150mV	88%
RSP-1000-27	27V, 0~37A	±1%	150mV	88%
RSP-1000-48	48V, 0~21A	±1%	150mV	90%

2000W		RSP-2000		
Model No.	Output	Tol.	R&N	Eff.
RSP-2000-12	12V, 0~100A	±2%	150mV	87.0%
RSP-2000-24	24V, 0~80A	±1%	200mV	90.5%
RSP-2000-48	48V, 0~42A	±1%	300mV	92.0%

1500W		RSP-1500		
Model No.	Output	Tol.	R&N	Eff.
RSP-1500-5	5V, 0~240A	±2%	150mV	80%
RSP-1500-12	12V, 0~125A	±1%	150mV	87%
RSP-1500-15	15V, 0~100A	±1%	150mV	87%
RSP-1500-24	24V, 0~63A	±1%	150mV	90%
RSP-1500-27	27V, 0~56A	±1%	150mV	90%
RSP-1500-48	48V, 0~32A	±1%	200mV	91%

2400W		RSP-2400		
Model No.	Output	Tol.	R&N	Eff.
RSP-2400-12	12V, 0~166.7A	±1%	150mV	88.0%
RSP-2400-24	24V, 0~100A	±1%	150mV	90.5%
RSP-2400-48	48V, 0~50A	±1%	200mV	91.5%

3000W		RSP-3000		
Model No.	Output	Tol.	R&N	Eff.
RSP-3000-12	12V, 0~200A	±1%	150mV	87.5%
RSP-3000-24	24V, 0~125A	±1%	150mV	90.0%
RSP-3000-48	48V, 0~62.5A	±1%	200mV	91.5%