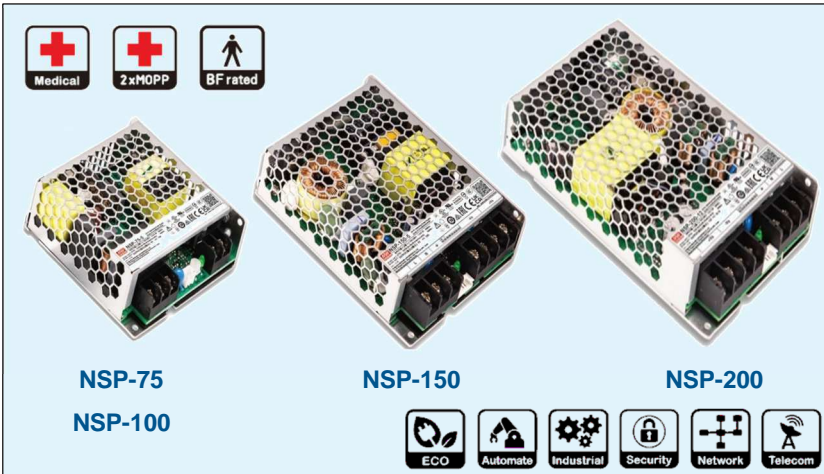


NSP Series 75W~200W Single Output with PFC function



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
- Cooling by free air convection
- Extensive range of voltages 5V to 60V
- Constant current limiting, 200% peak (12~60V)
- Remote ON/OFF control
- LED indicator for power on
- DC OK signal, Remote Voltage Sense (>100W)
- 5 year warranty

General Specifications (Please refer to www.procontechology.com.au for detailed specs)



Model No.	NSP-75	NSP-100	NSP-150	NSP-200
AC input voltage range	85~305VAC; 120~431VDC			
AC inrush current (max.)	35A at 230VAC, cold start		45A at 230VAC, cold start	40A at 230VAC, cold start
DC adjustment range	5V:4.7~5.5V, 7.5V:6.8~9V, 12V:10.8~14V, 15V:15~19V, 24V:21~26V, 27V:26~32V, 36V:32~43V, 48V:44~57V, 60V:54~72V			
Overload protection	Range	5V: 107~170%, 7.5V: 105~150%, 12~60V: 105~200%		
	Type	5V: Hiccup mode; 7.5V: Constant Current(CC) for 5s then shut down, 12~60V: Up to 200% for 5s then CC, shutdown if Vo<30%		
Over voltage protection	Range	115~150%		
	Type	Shut down O/P voltage, re-power on to recover		
Withstand voltage	I/P-O/P: 4.2kVac, I/P-FG: 2.1kVAC, O/P-FG: 1.5kVAC, OVC III			NSP Vs RSP
Working temperature	-40°C ~ +85°C (refer to output derating curve)			
Safety standards	BS EN62368-1, EN60335-1, EN61558-1/-2-16, AS/NZS62368-1, AS/NZS61558-1/-2-16			
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11			
Connection	I/P: 3P, O/P: 2P / 8.25mm pitch terminal blocks		I/P: 3P, O/P: 4P / 9.5mm pitch	
Dimensions (LxWxH)	99x97x30mm	99x97x30mm	129x97x30mm	159x97x30mm
Weight	0.3kg	0.3kg	0.4kg	0.5kg



75W NSP-75

Model No.	Output	Tol.	R&N	Eff.
NSP-75-5	5V, 0~15A	±2%	150mV	90.5%
NSP-75-12	12V, 0~6.3A	±2%	150mV	92.0%
NSP-75-15	15V, 0~5A	±2%	150mV	92.0%
NSP-75-24	24V, 0~3.2A	±1%	150mV	90.5%
NSP-75-27	27V, 0~2.8A	±1%	240mV	91.0%
NSP-75-36	36V, 0~2.1A	±1%	240mV	91.5%
NSP-75-48	48V, 0~1.6A	±1%	240mV	92.0%
NSP-75-60	60V, 0~1.3A	±1%	300mV	92.0%

150W NSP-150

Model No.	Output	Tol.	R&N	Eff.
NSP-150-5	5V, 0~30A	±2%	150mV	91.0%
NSP-150-7.5	7.5V, 0~20A	±2%	150mV	91.5%
NSP-150-12	12V, 0~12.5A	±2%	150mV	93.0%
NSP-150-15	15V, 0~10A	±2%	150mV	93.5%
NSP-150-24	24V, 0~6.3A	±1%	200mV	92.0%
NSP-150-27	27V, 0~5.6A	±1%	240mV	92.0%
NSP-150-36	36V, 0~4.2A	±1%	240mV	92.5%
NSP-150-48	48V, 0~3.2A	±1%	240mV	92.5%
NSP-150-60	60V, 0~2.6A	±1%	300mV	93.0%

100W NSP-100

Model No.	Output	Tol.	R&N	Eff.
NSP-100-5	5V, 0~20A	±2%	150mV	90.0%
NSP-100-7.5	7.5V, 0~13.4A	±2%	150mV	91.0%
NSP-100-12	12V, 0~8.5A	±2%	150mV	92.0%
NSP-100-15	15V, 0~6.7A	±2%	150mV	92.0%
NSP-100-24	24V, 0~4.2A	±1%	200mV	91.0%
NSP-100-27	27V, 0~3.7A	±1%	240mV	91.0%
NSP-100-36	36V, 0~2.8A	±1%	240mV	91.5%
NSP-100-48	48V, 0~2.1A	±1%	240mV	92.0%
NSP-100-60	60V, 0~1.7A	±1%	300mV	92.0%

200W NSP-200

Model No.	Output	Tol.	R&N	Eff.
NSP-200-5	5V, 0~40A	±2%	200mV	92.0%
NSP-200-7.5	7.5V, 0~26.8A	±2%	200mV	92.0%
NSP-200-12	12V, 0~16.7A	±2%	200mV	93.5%
NSP-200-15	15V, 0~13.4A	±2%	200mV	94.0%
NSP-200-24	24V, 0~8.4A	±1%	240mV	94.5%
NSP-200-27	27V, 0~7.4A	±1%	240mV	94.5%
NSP-200-36	36V, 0~5.6A	±1%	240mV	94.5%
NSP-200-48	48V, 0~4.2A	±1%	240mV	94.0%
NSP-200-60	60V, 0~3.4A	±1%	300mV	94.0%

Tol = voltage tolerance; R&N = Ripple & Noise (peak to peak); Eff = Efficiency

NSP Series 320W~750W Premium Single Output with PFC



Power Supply Features



- **Ultra low profile: 30 to 41mm**
- Universal AC input / 85~305VAC
- Active PFC (Power Factor Correction)
- Protection: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan, low noise
- Extensive range of voltages 5V to 60V
- Constant current limiting, 200% peak (12~60V)
- Conformal coating with OVC III
- LED indicator for power on
- **DC OK signal, Remote ON/OFF & Voltage Sense**
- **5 year warranty**

General Specifications (Please refer to www.procontech.com.au for detailed specs)



Model No.	NSP-320	NSP-500	NSP-750	
AC input voltage range	85~305VAC; 120~431VDC			
AC inrush current (max.)	40A at 230VAC, cold start			
DC adjustment range	5V:4.7~5.5V, 7.5V* :6.8~9V, 12V:10.8~14V, 15V:15~19V, 24V:21~26V, 27V:26~32V, 36V:32~43V, 48V:44~57V, 60V:54~72V			
Overload protection	Range	5V: 107~170%, 7.5V* : 105~150%, 12~60V : 105~200%, *NSP-320 only		
	Type	5V: Hiccup mode; 7.5V* : Constant Current(CC) for 5s then shut down, 12~60V : Up to 200% for 5s then CC, shutdown if Vo<30%		
Over voltage protection	Range	115~150%		
	Type	Shut down O/P voltage, re-power on to recover		
Withstand voltage	I/P-O/P: 4.2kVac, I/P-FG: 2.1kVAC, O/P-FG: 1.5kVAC			
Working temperature	-40°C ~ +85°C (refer to output derating curve)			
Safety standards	BS EN62368-1, EN60335-1, EN61558-1/2-16, AS/NZS62368-1, AS/NZS61558-1/2-16			
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11			
Connection	Input	3P / 9.5mm pitch terminals	3P / 9.5mm pitch terminals	3P / 9.5mm pitch terminals
	Output	4P / 9.5mm pitch terminals	2P / M4 or M5 terminal block (see manual)	2P / M5 terminal block
Dimensions (LxWxH)	179x99x30mm	199x99x41mm	199x105x41mm	
Weight	0.67kg	1.0kg	1.23kg	

320W		NSP-320		
Model No.	Output	Tol.	R&N	Eff.
NSP-320-5	5V, 0~60A	±2%	200mV	91.0%
NSP-320-7.5	7.5V, 0~40A	±2%	200mV	91.0%
NSP-320-12	12V, 0~26.7A	±2%	200mV	93.5%
NSP-320-15	15V, 0~21.4A	±2%	200mV	93.5%
NSP-320-24	24V, 0~13.4A	±1%	240mV	93.5%
NSP-320-27	27V, 0~11.9A	±1%	240mV	93.5%
NSP-320-36	36V, 0~8.9A	±1%	240mV	93.5%
NSP-320-48	48V, 0~6.7A	±1%	240mV	93.5%
NSP-320-60	60V, 0~5.4A	±1%	300mV	93.5%

750W		NSP-750		
Model No.	Output	Tol.	R&N	Eff.
NSP-750-5	5V, 0~100A	±2%	200mV	91.0%
NSP-750-12	12V, 0~62.5A	±2%	200mV	92.0%
NSP-750-15	15V, 0~50A	±2%	200mV	92.0%
NSP-750-24	24V, 0~31.3A	±1%	240mV	94.0%
NSP-750-27	27V, 0~27.8A	±1%	240mV	94.0%
NSP-750-36	36V, 0~20.9A	±1%	240mV	95.0%
NSP-750-48	48V, 0~15.7A	±1%	240mV	95.0%
NSP-750-60	60V, 0~12.6A	±1%	300mV	95.0%

500W		NSP-500		
Model No.	Output	Tol.	R&N	Eff.
NSP-500-5	5V, 0~90A	±2%	200mV	90.0%
NSP-500-12	12V, 0~42A	±2%	200mV	92.0%
NSP-500-15	15V, 0~33.4A	±2%	200mV	92.0%
NSP-500-24	24V, 0~21A	±1%	240mV	94.0%
NSP-500-27	27V, 0~18.6A	±1%	240mV	94.0%
NSP-500-36	36V, 0~13.9A	±1%	240mV	94.5%
NSP-500-48	48V, 0~10.5A	±1%	240mV	95.0%
NSP-500-60	60V, 0~8.4A	±1%	300mV	95.0%

Tol = voltage tolerance; R&N = Ripple & Noise (peak to peak); Eff = Efficiency