For the latest prices, please check AutomationDirect.com.

1-800-633-0405 **RHINO PS Series 12 VDC and 24 VDC Power Supplies**

Switching power supplies at linear supply prices

The PS Series power supplies give you consistent, reliable, switched DC power at linear power supply prices.

These power supplies use efficient switching technology to produce the most power in the smallest space, while generating a minimum amount of heat. The constant-current short circuit protection limits the output current as the voltage is reduced to safely protect your control components from direct shorts and device failures. Once the short is corrected, the PS Series power supplies automatically resume supplying fullvoltage power. Precisely regulated output power is suitable for battery charging applications. Extra-sturdy DIN rail mounts and removable plug connections make installation a breeze.

Meeting UL/cUL 60950, 508 and 1604* (Class I, Div. 2), our PS-D (DIN rail mounted) power supplies meet the standards required for practically any industrial control application.

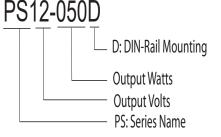
Features

- 2A 24A at 24 VDC, 3.5A at 12 VDC
- Regulated switch mode type
- Low profile case
- Easy DIN rail mounting
- · Constant-current short circuit protection
- · Low ripple and noise
- Selectable input voltage (115/230 VAC)
- High EMC immunity
- EMI meets EN 55011-B and FCC Part 15, Level B
- · Constant current protection with auto-recovery:
- No current spikes to damage powered devices due to improper wiring or a powered device failure
- Worldwide safety approvals: UL/cUL 508, 60950 and 1604 Class I, Div. 2, CE

* [PS12-050D, PS24-050D and PS24-500D do not meet UL 1604 Class I Div 2]



Part numbering system



1-800-633-0405 RHINO PS Series Power Supplies Specifications



PS12-050D PS24-050D



PS12-075D PS24-075D



PS24-150D



PS24-300D



PS24-500D



F 324-000D

General Specifications							
Temperature	Operating [ambient]: -25 to 70°C [-13 to 158°F] max, Derating above 50°C 2%/C Storage [non-operating]: -25 to 85°C [-13 to 185°F] max, Temperature drift: 0.02%/C						
Humidity	95% [non-condensing] relative humidity max						
Switching Frequency	80 kHz typical [PWM]						
Isolation	According to IEC/EN 60950, UL 60950, UL 508						
Output Regulation	Input variation: ± 0.2% max Load variation: 50W, 75W, 150W models: ± 1% max 300W, 500W, 600W models: ± 0.3% max						
Output Voltage Ripple	< 50 mV peak to peak [20 MHz bandwidth]						
Output Protection	Current limit: 110% maximum output rating. Voltage limit: 140% Vout nom						
Vibration	1gn 20 sweeps each axis						
Shock	15gn, 11mS each axis						
Enclosure Rating	IP 20						
Enclosure Material	Aluminum [chassis] / stainless steel [cover]						
Mounting	Snap-on with self-locking spring for 35mm DIN rails						
Connection	Removable screw terminals for 22-10AWG, wire stripping length 7-8mm						
Agency Approvals	pprovals UL/cUL 60950 recognized, File No. E198298, UL/cUL 508 listed File No. E197592, UL/cUL 1604 listed [Class I, Div 2, groups A,B,C, and D hazardous locations], File No. E197886, except PSxx-050D and <u>PS24-500D</u> , which are not UL/cUL1604 listed. CE						

Note: All specifications are valid at nominal input voltage, full load and +25°C after warm-up time, unless otherwise stated.

Input Specifications										
Part Number	Input Voltage Range	Input Frequency Range	Input Current [Typical]		Inrush Current [<2mS]		Efficiency [Typ @	C-Curve Circuit Breaker or		
			115 VAC	230 VAC	115 VAC	230 VAC	115VAC]	Slow-blow Fuse		
PS12-050D	93-264 VAC 93-264 VAC	47-63 Hz	1.2 A	0.7 A	< 15 A	< 30 A	84%	5.0 A		
<u>PS24-050D</u>			1.2 A	0.7 A			85%			
<u>PS12-075D</u>			1.7 A	0.9 A	< 16.5 A	< 33 A	82%			
<u>PS24-075D</u>	93-132 VAC		1.7A	0.9 A			86%			
<u>PS24-150D</u>	187-264 VAC [switch selectable]		3.0 A	1.7 A	< 35 A	< 70 A	87%	10.0 A		
<u>PS24-300D</u>	[]		5.4 A	3.3 A			88%	15.0 A		
<u>PS24-500D</u>	93-132 VAC 93-132 VAC 187-264 VAC [switch selectable]		9.5 A	N/A	< 50 A	N/A	87%			
<u>PS24-600D</u>			10.5 A	6.4 A	< 70 A	< 80 A	88%	20.0 A		

Output Specifications										
Part Number Pric	Price	Drawing	Output Voltage	Output Voltage Adj. Range	Output Current [Max]	Output Power [Max]	Output Voltage Regulation*	Hold-Up Time		MTBF [IEC 1709
	11100	Link						115 VAC	230 VAC	@ 25°C]
<u>PS12-050D</u>	\$144.00	<u>PDF</u>	12VDC	DC 12-14 VDC 3.5 A 50W			2,992,000			
<u>PS24-050D</u>	\$131.00	PDF	24VDC	24-28 VDC	2.0 A	50W	- 1%	25mS	30mS _	hours
<u>PS12-075D</u>	\$212.00	PDF	12VDC	12-14 VDC	6.0 A	75W				1,800,000
<u>PS24-075D</u>	\$139.00	PDF	24VDC	24-28 VDC	3.0 A	75W				hours
<u>PS24-150D</u>	\$236.00	<u>PDF</u>			6.0 A	150W				1,939,000 hours
<u>PS24-300D</u>	\$292.00	<u>PDF</u>			12.0 A	300W	0.3%			1,913,000 hours
<u>PS24-500D</u>	\$511.00	<u>PDF</u>			20.0 A	500W		20mS	N/A	1,467,000 hours
<u>PS24-600D</u>	\$507.00	<u>PDF</u>			24.0 A	600W		15mS	25mS	1,434,000 hours

*Load variation (10-90%)

Notes: Output current characteristic suitable for battery charging applications. Not recommended for redundancy or parallel operation.