

RHINO PSC Series Power Supplies Specifications

NEC Class 2 Compliant Supplies



PSC-05-012, PSC-12-015,
PSC-24-015

The RHINO PSC series power supplies are plastic low-profile housed switching supplies available in 5, 12 and 24 VDC adjustable output models. There are 8 models with power ratings from 12W to 90W. They have an integral DIN rail mounting adapter and feature universal 120/240 VAC input voltage, adjustable DC output, DC-OK LED indication, and output current limitation.



PSC-12-030, PSC-24-030

The RHINO PSC series of switching power supplies provide tightly regulated output voltage for sensitive loads in industrial, commercial and residential environments. The plastic housing is lightweight and low-profile, designed to fit in shallow depth control panels often used in the building automation industry. Screw terminals are provided for simple and speedy wiring terminations.

The RHINO PSC series is both UL508 listed for demanding industrial applications and UL1310 recognized for NEC Class 2 compliance in industrial, commercial and residential applications.

Features

- Low-profile housing - only 2.15 inches (55mm) deep (MCB form factor)
- 5, 12, 24VDC adjustable outputs
- Output power ratings from 12 to 90W
- Integral DIN rail mounting adapter
- Universal input voltage range 120/240 VAC
- Tight output voltage regulation
- DC-OK LED indication
- UL508 Listed
- UL1310 Recognized for NEC Class 2 compliance
- CE compliant
- RoHS compliant



PSC-12-060, PSC-24-060



PSC-24-090



Input Specifications						
Part Number	Input Voltage Range	Input Frequency Range	Input Current (Typical) at full load		Efficiency (Typ.)	C-Curve Circuit Breaker or Slow-blow Fuse
			115 VAC	230 VAC		
PSC-05-012	100-240VAC - Nominal 85 to 264VAC - Universal (output power derating 5% / V for operation below 90 VAC)	47-63 Hz	0.25A typ.	0.17A typ.	73%	6.0 A
PSC-12-015			0.29A typ.	0.20A typ.	79%	
PSC-24-015					81%	
PSC-12-030					81%	
PSC-24-030					83%	
PSC-12-060					83%	
PSC-24-060					85%	
PSC-24-090					1.60A typ.	

Output Specifications								
Part Number	Price	Output Voltage	Output Volt. Adjust. Range	Output Current (Max.)	Output Power (Max.)	Hold-Up Time		MTBF (IEC 1709 @ 25°C)
						115 VAC	230 VAC	
PSC-05-012	\$45.00	5.0VDC	5.0 to 5.2VDC	2.4A	12 Watt	minimum 10 ms	minimum 20 ms	1,600,000 hours
PSC-12-015	\$45.00	12.0VDC	12.0 to 16.0VDC	1.25A	15 Watt			
PSC-24-015	\$45.00	24.0VDC	24.0 to 28.0VDC	0.63A				
PSC-12-030	\$57.00	12.0VDC	12.0 to 16.0VDC	2.5A	30 Watt			1,300,000 hours
PSC-24-030	\$57.00	24.0VDC	24.0 to 28.0VDC	1.25A				
PSC-12-060	\$69.00	12.0VDC	12.0 to 16.0VDC	4.5A	54 Watt			2,100,000 hours
PSC-24-060	\$69.00	24.0VDC	24.0 to 28.0VDC	2.5A	60 Watt			
PSC-24-090	\$87.00	24.0VDC		3.75A	90 Watt			

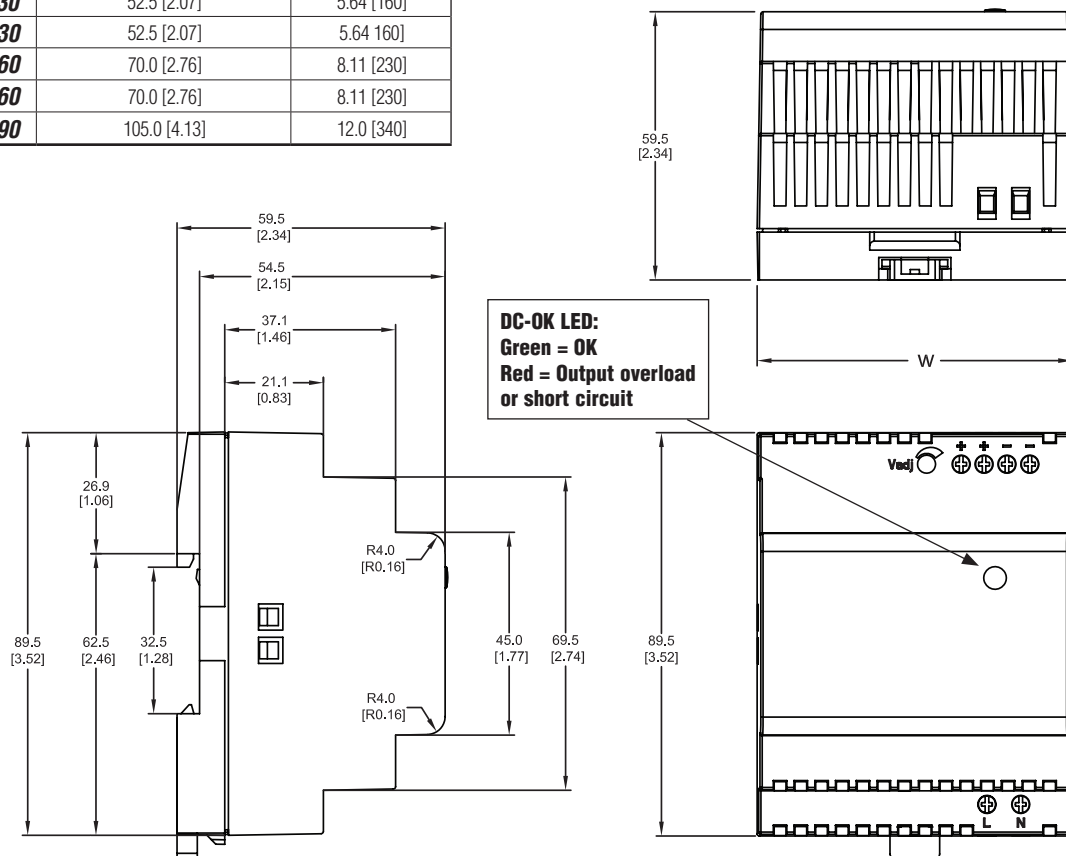
RHINO PSC Series Power Supplies

Specifications and Dimensions

General Specifications	
Temperature	Operating: -25°C (-13°F) to +60°C (+140°F) max at nominal load, above +60°C (+140°F) 2.5% / °C derating up to +70°C (+185°F) Storage: -25°C (-13°F) to +85°C (+185°F) max
Humidity	95% (non-condensing) relative humidity max.
Output Regulation	1%
Protection Class II	to IEC/EN 60536
Safety Standards	UL508, UL1310, Class 2 IEC/EN 60950-1, UL60950-1, EN50178 EN60204, EN61558-2-8
Output Voltage Ripple	<100 mV peak-to-peak
Output Protection	Current limitation at 100 - 150% typ. (automatic recovery)
Electromagnetic Compatibility (EMC)	Emissions - EN61000-6-3 Conducted RI suppression on input - EN55032 class B Radiated RI suppression - EN55032 class B FCC Class B Immunity - EN61000-6-2 EN61000-4-X
Enclosure Rating	IP 20 (IEC 60529)
Enclosure Material	Plastic FR2010-110C (UL 94V-0 rated)
Mounting	DIN-rails as per EN50022-35x15/735 (snap-on with self-locking springs)
Connection	Screw terminals with combi-type screw heads for wire size 24 to 12 AWG (0.20 to 3.30mm ²)
Agency Approvals	UL508 Listed, file #E197592 UL1310 Class 2 Recognized, file #E198298

Dimensions		
Part No.	Width (W) - mm [inches]	Weight oz [g]
PSC-05-012	26.3 [1.04]	3.53 [100]
PSC-12-015	26.3 [1.04]	3.53 [100]
PSC-24-015	26.3 [1.04]	3.53 [100]
PSC-12-030	52.5 [2.07]	5.64 [160]
PSC-24-030	52.5 [2.07]	5.64 [160]
PSC-12-060	70.0 [2.76]	8.11 [230]
PSC-24-060	70.0 [2.76]	8.11 [230]
PSC-24-090	105.0 [4.13]	12.0 [340]

Wiring		
Input/Output	Description	Wire size
AC Input	all models: L, N only (2 pin terminal)	24 - 12 AWG / 3.30mm ² max
DC Output	15 - 30 Watt models: single + and - terminals	24 - 12 AWG / 3.30mm ² max
DC Output	60 - 90 Watt models: double + and - terminals	24 - 12 AWG / 3.30mm ² max



TOLERANCE +/- 0.5mm [0.02"]