

RHINO PSS Series Panel Mount Power Supply

Overview

AutomationDirect's RHINO PSS panel mount power supply is perfect for applications that require a basic DC voltage power supply. The low cost power supply offers high performance and reliability without all the additional features of higher cost full-featured power supplies. The PSS0524-100 provides both a 24VDC and a 5VDC output. The rugged aluminum housing easily screw mounts in three different mounting orientations. This high-quality power supply includes overload, overvoltage and thermal protection, and is UL 60950 recognized, CE marked and RoHS compliant.

Features

- Dual 5 and 24VDC, 100 Watts
- Adjustable output voltage
- Rugged aluminum housing, screw mounts in three different orientations
- Output voltage status LED
- Robust fixed-screw terminal strips
- Overload, overvoltage and thermal protection
- UL 60950 recognized, CE marked and RoHS compliant
- 2-year warranty



Input Specifications

Part Number	Price	Weight kg [lb]	Input Voltage	Input Frequency Range	Max. Input Current	Inrush Current Limitation I _{2t} @ 77°F [+25°C] typ.	Leakage Current	Recommended Circuit Breaker
PSS0524-100	\$49.50	0.52 [1.15]	85–264 VAC [DC input range 125–375 VDC]	47–63 Hz [0Hz @ DC Input]	< 2A Max @ 115VAC, < 1.1A Max @ 230VAC	< 50A @ 115VAC, 100A @ 230VAC	< 1mA	16A "B" Curve

Output Specifications

Part Number	Output Voltage (V _{nom}) / Adjustment Range	Output Power	Output Current	Ripple and Noise [20MHz]	Startup with Capacitive Loads	Start-Up Time	Hold-Up Time at Nominal Load (Typ.) (Mains Buffering) @ 25°C [77°F]	Rise Time	Efficiency [Typ @ 115VAC]
PSS0524-100	V1: 24VDC / 22.8–26.4 VDC V2: 5VDC / Fixed	100W	V1: 2.7 A V2: 7.0 A	V1: < 200 mVpp; V2: < 80 mVpp	4000µF	< 1000ms @ 100% load 25°C [77°F] and typical line input	> 15ms @ 115VAC, >80ms @ 230VAC with 100W load	V1: < 30ms, V2: < 20ms @ 100% load 25°C [77°F]	82%

RHINO PSS Series Panel Mount Power Supply Specifications

General Specifications	
Output Line Regulation	<0.5% typical @ 85–264 VAC input, 100% load
Output Load Regulation	<1% typical @ 85–264 VAC input, 0-100% load
Overload/Short Circuit Protection	>150% of total rated output power, hiccup mode, non-latching, auto-recovery)
Overvoltage Protection	V1: <32.4 VDC max., V2: 6.75 VDC max., hiccup mode, non-latching [auto recovery]
Case Cover	Aluminium [Al1100]
Signals	Green LED DC OK
MTBF	>700,000 hrs.
Noise	Sound pressure level [SPL] <40dBA
Cooling	Convection
Input/Output Terminal	7-Pin rated 300V/15A]
Shock Test	30g half sine, 3 times per direction, 6 directions, per IEC60068-2-27
Vibration	10 to 150Hz, 5g, 20 min. each axis per IEC60068-2-6
Operating Temperature	-10 to 70°C* [14 to 158°F]
Storage Temperature	-25 to 85°C [-13 to 185°F]
Humidity at +25 °C [77°F], no condensation	<95% RH non-condensing

* Operating to 70°C [158°F] possible with a linear derating to half power from 50 to 70°C [122 to 158°F]

Safety and Agency Approvals	
EMC / Emissions	FCC Title 47, Class B/EN 55032;CISPR32, Class B
Immunity	EN 61000-4-2,1995; EN 61000-4-3,1998; EN 61000-4-4,1995; IEC61000-4-5,1995; EN 61000-4-6,1996; EN 61000-4-8 or IEC61000-4-12 or IEEE C62.41; EN 61000-3-2,1994
Voltage Dips	Conform to EN 61000-4-11
Galvanic Isolation	Input to Output : 3 KVAC, Input to Ground : 1.5 KVAC, Output to Ground : 0.5 KVAC
Approvals	UR/cUR recognized to UL60950-1 File no. E198298; CB test certificate and report to IEC60950-1, CE [EMC and Low Voltage directive]
RoHS Compliant	Yes

Additional Data					
Part Number	Wire Size / Torque		Terminal Block Type	Chassis Mounting Torque	Drawing Link
	Input	Output			
PSS0524-100	0.82-2.08 mm ² (AWG 18-14) / 1.3 Nm (11.3 in-lb)	0.82-2.08 mm ² (AWG 18-14) / 1.3 Nm (11.3 in-lb)	Fixed screw terminals	0.4–0.8 N•m [3.5–7 lb•in]	PDF