



Switching Power Supplies

PSRT Series

Overview

AutomationDirect's RHINO TOUGH PSRT series of switching power supplies are designed for industrial applications outside of the control cabinet. These field-mountable power supplies offer a compact footprint and allow machine mounting near the load.

Features

- High efficiency
- Compact size
- Integrated device protection
- Quick connection with 7/8" connectors
- Internal isolating transformer with reinforced insulation
- IP67 protection class - safe to touch even at full load



PSRT-24-100



PSRT-24-200

Switching Power Supplies

Part Number	Price	Output Voltage	Output Current	Output Power	Drawing Link
<u>PSRT-24-100</u>	\$263.00	24VDC	3.8 A	91.2 W	<u>PDF</u>
<u>PSRT-24-200</u>	\$341.00		8A	192W	<u>PDF</u>

Input Specifications

Part Number	Nominal Input Voltage	Input Voltage Range	Nominal Frequency Range	Max. Input Current	Max. Inrush Current (after 1ms)	Nominal Watts	Efficiency	Circuit Breaker
<u>PSRT-24-100</u>	120/240 VAC 100/230 VDC	90-265 VAC/VDC	50/60 Hz ±6 %	1.1 A @ 100VAC 0.5 A @ 240VAC	8.9A @ 230VAC	0.95 kW @ 230VAC	91.4% @ 115VAC 92.1% @ 230VAC	C4
<u>PSRT-24-200</u>		90-265 VAC 90-372 VDC		2.1 A @ 100 VAC 0.9 A @ 240 VAC	7A @ 230VAC	0.95 kW @ 230VAC	93.7% @ 115VAC 94.4% @ 230VAC	B or C

Output Specifications

Part Number	Output Voltage	Output Hold-up Time (Min.)	Output Current (Continuous 24VDC)	Output Current (Power Boost)	Output Current (Short-Circuit)	MTBF (@ 40°C)
<u>PSRT-24-100</u>	24VDC (SELV) ±2%	80ms (230VAC) 3.8 A (24VDC)	3.8 A (+60 °C) 2.4 A (+70 °C)	N/A	4.4 A	> 1,000,000h
<u>PSRT-24-200</u>		≥ 35ms (230VAC) 8A (24VDC)	8A (+60 °C) 4.8 A (+70 °C)	150% for 5s	9A	> 700,000h



Switching Power Supplies

PSRT Series

General Specifications			
Part Number		PSRT-24-100	PSRT-24-200
Temperature	Operating	-40 to 85°C [-40 to 185°F]	
	Storage	-40 to 85°C [-40 to 185°F]	
Humidity		4 to 100%	
Line Regulation		5mV	
Load Regulation		110mV	
Short Circuit Protection		Yes	
Leakage Current		< 1mA @ 230VAC / 50 Hz	
Start-up Time		≤ 330ms @ 100VAC ≤ 330ms @ 230VAC	≤ 500 ms
Short Circuit Protection		Yes	
Overload Protection		Yes	
Overvoltage Shutdown		N/A	
Status Indicators		LED (green): output voltage OK LED (red): overload, overheating or short-circuit No color - No input voltage	
Ripple (max.)		50 mVrms	< 30 mVeff/rms
Spikes (max.)		130 mVp-p	300 mVss/pp
Vibration		IEC 60068-2-6; 2-17.8Hz: 7.84 mm, 17.8-500 Hz: 5g	
Shock		IEC 60068-2-27 [50g / 8ms]	
Enclosure Rating		IP67	
Mounting		Chassis	
Housing Material		Aluminum (encapsulated)	
Connection		(1) 7/8in - 16 UN2 4-pin female (1) 7/8in - 16 UN2 3-pin male Diagram 1	(1) 7/8in - 16 UN2 3-pin male (1) 7/8in - 16 UN2 5-pin female Diagram 2
Tightening Torque		1.5 N•m [13.27 lb-in]	
Weight kg [lb]		1.22 [2.68]	1.65 [3.63]
Agency Approval		UL 508 File E197592, CE	

Wiring Diagrams

Diagram 1

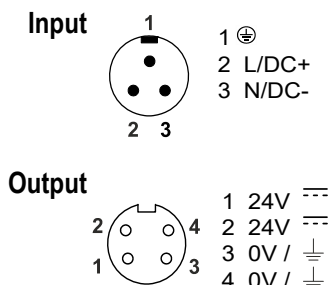


Diagram 2

