

## FEATURES

- Chassis mount embedded switch mode power supply (SMPS)
- One output
- Power rating of 504 W
- Output current of 21 A
- Output voltage of 24 V DC
- Enclosed package type
- Efficiency of 90%
- Input voltage of 88 V to 264 V AC
- Operating temperature range of -20°C to +70°C
- Dimensions of 183 mm x 120 mm x 83.5 mm
- Meets UL60950-1, EN60950-1: 2006 IEC60950-1:2005 safety standards
- Complies to EN55022 Class B emission standards

## RS PRO, 504W Embedded Switch Mode Power Supply SMPS, 24V dc, Enclosed

RS Stock No.: 161-8237



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

Used to transform input voltage into output voltage, the RS PRO 504 W, 24 V switch-mode power supply (SMPS) comes standard with built-in power factor correction. This allows power between the electrical source and the circuit to be consumed efficiently. The embedded unit has a universal, full-range AC input and has been given the RS PRO seal of approval, guaranteeing high productivity, excellent reliability and long working life. It has an efficiency rating of 90% and is a good choice for charging portable electronics, such as laptops, as it helps to extend the device's battery life.

## General Specifications

<b>Mounting Type</b>	PCB
<b>Package Type</b>	Enclosed
<b>MTBF</b>	200000 h
<b>Applications</b>	Industrial control system, Mechanical and electrical equipment

## Electrical Specifications

Input Specification	
<b>Voltage Range</b>	88Vac to 264Vac
<b>Frequency</b>	47 to 63Hz
<b>AC Current Rating</b>	< 9A
<b>Inrush Current</b>	<20A@230Vac
<b>Leakage Current (max.)</b>	Input-Output:<0.25mA Input-PG:<3.5mA

Output Specification	
Number of Outputs	1
DC Voltage	24V
Ripple & Noise (max.)	<150mVp-p
Rated Current	21A
Rated Power	504W
Voltage Tolerance	±1.0%
Line Regulation	±0.5%
Load Regulation	±1.0%

Voltage Adj. Rang	5%~10% of Rated Output Voltage
Rise Time	<1.5 Seconds - 230Vac at 100%Load
Hold Up Time	>16mS - 230Vac at 100%Load
Overload Protection	105~150% rated output current
Short Circuit Protection	Yes
Isolation Resistance	> 100M Ohms

## Mechanical Specifications

Overall Dimensions	183mm x 120mm x 83.5mm
Overall Length	183mm
Overall Depth	120mm
Overall Width	83.5mm
Weight	12kg

## Operation Environment Specifications

Operating Humidity	20% to 90% RH non-condensing
Cooling	Natural convection
Operating Temperature Range	-20°C to +85°C
Storage Temperature Range	-40°C to 85°C
Altitude During Operation	5000m
Vibration Resistance	10 ~ 500Hz, 2G, 10 minute cycle, X, Y, Z 60 minute in each direction

## Approvals

<b>Safety Standard</b>	EN60950-1: 2006 IEC60950-1:2005
<b>EMC Emission</b>	Compliance to EN55022 Class B



# Embedded Switch Mode Power Supplies (SMPS)

