

## FEATURES

- Chassis mount embedded switch mode power supply (SMPS)
- One output
- Power rating of 588 W
- Output current of 13.6 A
- Output voltage of 48 V DC
- Enclosed package type
- Efficiency of 89%
- Input voltage of 90 V to 264 V AC
- Operating temperature range of -30°C to +70°C
- Dimensions of 218 mm x 116.5 mm x 41 mm
- Meets UL60950-1, EN60950-1: 2006 IEC60950-1:2005 safety standards
- Complies to EN55022 Class B emission standards

## RS PRO, 588W Embedded Switch Mode Power Supply SMPS, 48V dc, Enclosed

RS Stock No.: 161-8242



RS Professionally Approved Products bring 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

This embedded switch-mode power supply (SMPS) from our trusted RS PRO brand is specifically designed to be efficient and offers a long service life. This type of component provides a reliable power supply to laptops, mobile phone chargers and closed-circuit cameras.

## General Specifications

<b>Mounting Type</b>	Chassis
<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>	90Vac 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	48V
Ripple & Noise (max.)	<200mVp-p
Rated Current	13.6A
Rated Power	588W
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	110~135% rated output current
Short Circuit Protection	Yes
Isolation Resistance	> 100M Ohms

## Mechanical Specifications

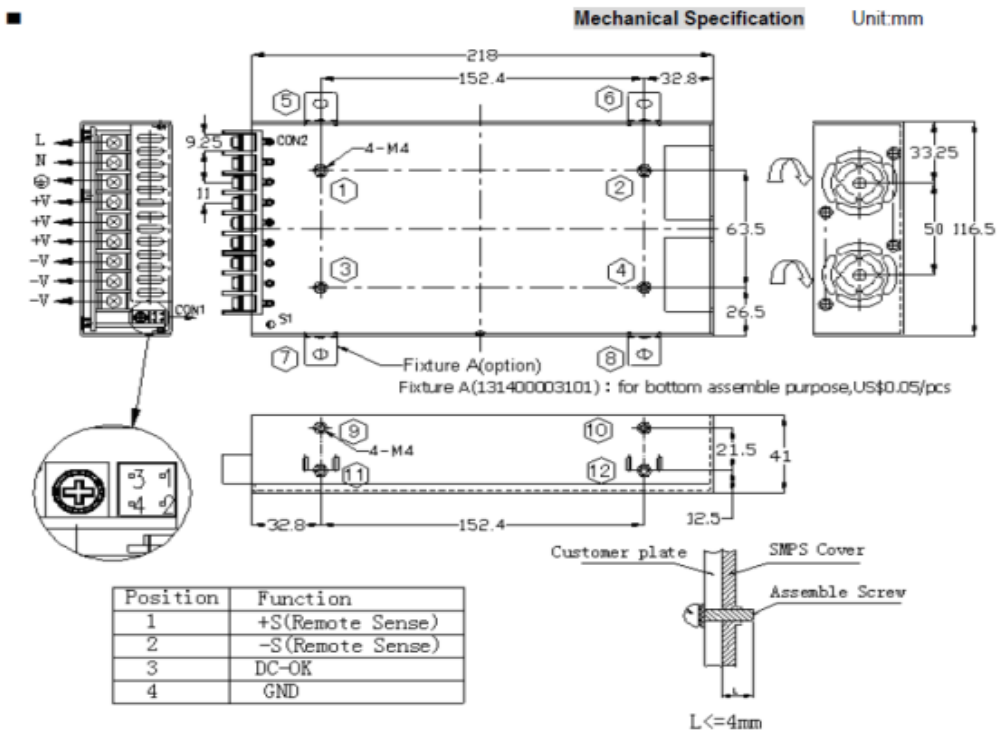
Overall Dimensions	218mm x 116.5mm x 41mm
Overall Length	218mm
Overall Depth	116.5mm
Overall Width	41mm
Weight	8.7kg

## 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



## Block Diagram

