

## FEATURES

- Output voltage of 12 V DC
- Output current of 2.5 A
- Power rating of 240 W
- Input voltage of 85 → 264 V AC
- Chassis mounting type
- 199 mm (length) x 99 mm (width) x 50 mm (depth)
- High power density
- Operating temperature of -25°C to +75°C

## RS PRO, 240W Embedded Switch Mode Power Supply SMPS, 12V dc, Enclosed

RS Stock No.: 161-8225



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 240 W embedded switch-mode power supply (SMPS) uses a switching regulator to convert alternating current (AC) to direct current (DC) more efficiently than traditional units. It takes mains power from an AC source and converts it to a DC load, which is used to charge a range of electronic equipment requiring a stable and efficient power supply. It's part of our tried-and-tested RS PRO range.

## General Specifications

<b>Mounting Type</b>	Chassis Mount
<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>	85Vac to 264Vac
<b>Frequency</b>	47 to 63Hz
<b>AC Current Rating</b>	< 4.5A
<b>Inrush Current</b>	<50A@230Vac, <30A@115Vac
<b>Leakage Current (max.)</b>	Input-Output:<0.25mA, Input-PG:<1.0mA

Output Specification	
Output Number	1
DC Voltage	12V
Ripple & Noise (max.)	<150mVp-p
Rated Current	20A
Rated Power	240W
Voltage Tolerance	±1.0%
Line Regulation	±0.5%
Load Regulation	±1.0%

Voltage Adj. Rang	5%~10% of Rated Output Voltage
Rise Time	<2 Seconds - 230Vac at 100% Load
Hold Up Time	>10mS - 230Vac at 100% Load
Overload Protection	120~170% rated output current
Short Circuit Protection	Yes
Isolation Resistance	> 100M Ohms

## Mechanical Specifications

Overall Dimensions	199mm x 99mm x 50mm
Overall Length	199mm
Overall Depth	99mm
Overall Width	50mm
Weight	11.6kg

## Operation Environment Specifications

Operating Humidity	20% to 90% RH non-condensing
Cooling	Natural convection
Operating Temperature Range	-25 °C to +70 °C (230Vac)
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>	UL60950-1, EN60950-1: 2006 IEC 60950-1:2005
<b>EMC Emission</b>	Compliance to EN55022 Class B



# Embedded Switch Mode Power Supplies (SMPS)



unit:mm

