

FEATURES

- Embedded switch mode power supply (SMPS)
- Single output
- Output voltage of 24 V DC
- Output current of 10 A
- Power rating of 240 W
- Input voltage of 85 → 264 V AC
- Chassis mounting
- Enclosed in a vented metal casing
- Length of 199 mm
- Width of 99 mm
- Depth of 50 mm
- Operating temperature of -25°C to +75°C
- Conforms to EN 61000-3-17 (limitations for harmonic current)

RS PRO, 240W Embedded Switch Mode Power Supply SMPS, 24V dc, Enclosed

RS Stock No.: 161-8226



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Product Description

This 240 W embedded switch-mode power supply from RS PRO is an electronic circuit that uses a switching element to convert power efficiently. Switch-mode power supplies, or SMPSs for short, convert alternating current (AC) to direct current (DC), which is the type required by most battery-powered devices and some electronic equipment. They use a switching regulator that continuously turns the current supply on and off, keeping voltage at the desired level while minimising wasted energy.

General Specifications

Mounting Type	Chassis Mount
Package Type	Enclosed
MTBF	200000 h
Applications	Industrial control system, Mechanical and electrical equipment

Electrical Specifications

Input Specification	
Voltage Range	85Vac to 264Vac
Frequency	47 to 63Hz
AC Current Rating	< 4.5A
Inrush Current	<50A@230Vac, <30A@115Vac
Leakage Current (max.)	Input-Output:<0.25mA, Input-PG:<1.0mA

Output Specification	
Number of Outputs	1
DC Voltage	24V
Ripple & Noise (max.)	<150mVp-p
Rated Current	10A
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 +75°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

Safety Standard	UL60950-1, EN60950-1: 2006 IEC 60950-1:2005
EMC Emission	Compliance to EN55022 Class B



Embedded Switch Mode Power Supplies (SMPS)

