



## PS1020 24V, 24W DIN Rail

Part Number: 32100-2



### KEY FEATURES AND BENEFITS

- Universal AC input
- Short circuit, overload, over voltage protection
- Air convection cooling
- DIN rail installation
- Built in DC OK active signal
- NEC class 2/ LPS compliant
- Power on LED indicator
- No load power consumption <0.75W
- 100% full burn-in tested

### PRODUCT DESCRIPTION

The PS1020 product is a slim-design, DIN rail mounted Class I switching power supply featuring fully isolated plastic cases, extended operating temperatures from -20° to 70°C and 84% efficiency.

Standard features include short circuit, overload and over voltage protection, no load power

consumption, and DC OK signal for monitoring status of the power supply unit.

# SPECIFICATIONS

## HARDWARE

### Enclosure

UL Compliant Fully  
Isolated Plastic Housing

### Installation Method

DIN RAIL (35MM)

### DIN Rail Spec

TS35/7.5 or TS35/15

### LED Indicators

Output Voltage Status

### Dimensions

3.9" x 0.8" x 3.5"

### Product Weight

0.35 lb

## INPUT

### Connector Type

Screw Terminals

### AC Voltage Range

85 - 264VAC

### Frequency Range

47 - 63Hz

### Efficiency (Typ.)

84%

### AC Current (Typ.)

0.55A / 115VAC

0.35A / 230VAC

### Cold Start Inrush Current

20A / 115VAC

40A / 230VAC

### Leakage Current

< 1mA / 240VAC

### No Load Power Consumption

< 0.75W

## OUTPUT SPECIFICATIONS

### Connector Type

Screw Terminals

### DC Voltage

24VDC

### Rated Current

1A

### Current Range

0 - 1A

### Rated Power

24W

### Voltage Adjustable Range

21.6 - 26.4VDC

### Voltage Tolerance

±1%

### Ripple and Noise (Max.)

150mVp-p

### Output Load Derating

50% of full load at 70°C

### Line Regulation

±1%

### Load Regulation

±1%

### Set-Up, Rise Time

500ms, 30ms/230VAC

1000ms, 30ms/115VAC

### Hold Up Time (Typ.)

50ms/230VAC

20ms/115VAC at Full Load

### DC OK Active Signal

18 - 27V / 20mA

## PROTECTION SPECIFICATIONS

### Short Circuit/ Overload

Overload Power

105 - 160% of rated power, 24W

Overload Protection Type

Constant Current Limiting Recovers automatically  
after fault condition is removed

### Over Voltage

Rated Voltage

27.6 - 32.4VDC

Over Voltage Protection Type

Shutdown output voltage, re-power on to recover

## ENVIRONMENTAL SPECIFICATIONS

### Air temperature

System On -20 to 70°C

System Off -40 to 85°C

### Operating Humidity (non-condensing)

20% to 90%

### Vibration

Component:

10 - 500Hz, 2G 10min./1cycle, 60min. each along

X, Y, Z axes;

Mounting:

Compliance to IEC60068-2-6

### Mean time between failures

27 years

## EXPORT INFORMATION

### Packaged Shipping Weight

0.40 lb

### Package Dimensions

4.5" x 1." x 4.1"

### UPC Code

7-56727-32100-2

### ECCN

4A994

### Schedule B Number

8504.40.6007

### Warranty

3 Years

## REGULATORY APPROVALS

### Emissions

European Standard EN61204-3

European Standard EN55022

Class B Limit

IEC 1000-3-2/EN61000-3-2: Harmonic

Class A Limit

IEC 1000-3-2/EN61000-3-2: Flicker

### Immunity

European Standard EN61204-3

European Standard EN55024:

IEC 1000-4-2/EN61000-4-2: Electrostatic Discharge  
(ESD)

IEC 1000-4-3/EN61000-4-3: Radiated

Radio-Frequency (RF)

IEC 1000-4-4/EN61000-4-4: Fast Transient/Burst

IEC 1000-4-5/EN61000-4-5: Surge

IEC 1000-4-6/EN61000-4-6: Conducted Disturbance

IEC 1000-4-8/EN61000-4-8: Magnetic field

IEC 1000-4-11/EN61000-4-11: Dips and Voltage

Variations

### Safety

UL 60950

### Other

European Standard: RoHS 2 compliant under CE

### Regulatory Approvals



### Warranty Information

Control offers a 30-day  
satisfaction guarantee and  
3-year limited warranty.

### Sales Support

+1.763.957.6000  
sales@comtrol.com

### Technical Support

+1.763.957.6000  
www.comtrol.com/support

### Email, FTP, and Web Support

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