

## PS1100A 48V, 100W, DIN Rail

Part Number: 32122-4



### 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 <1W
- 100% full burn-in tested

### PRODUCT DESCRIPTION

The PS1100A product is a slim-design, 48V, DIN rail mounted Class I switching power supply featuring fully isolated plastic cases, extended operating temperatures from -10° to 60°C and 88% 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 2.2" x 3.5"

#### Product Weight

0.9 lb

### INPUT SPECIFICATIONS

#### Connector Type

Screw Terminals

#### AC Voltage Range

85 - 264VAC

#### Frequency Range

47 - 63Hz

#### Power Factor (PF Typ.)

>= 0.95 / 230VAC

>= 0.98 / 115VAC

#### DC Voltage Range

120 - 370VDC

#### Efficiency (Typ.)

88%

#### AC Current (Typ.)

1.3A / 115VAC

0.8A / 230VAC

#### Cold Start Inrush Current (Typ.)

30A / 115VAC

60A / 230VAC

#### Leakage Current

< 1mA / 240VAC

#### No Load Power Consumption

< 1W

### OUTPUT SPECIFICATIONS

#### Connector Type

Screw Terminals

#### DC Voltage

48VDC

#### Rated Current

2A

#### Current Range

0 - 2A

#### Rated Power

96W

#### Voltage Adjustable Range

48 - 56VDC

#### Voltage Tolerance

±1%

#### Ripple and Noise (Max.)

200mVp-p

#### Output Load Derating

60% of full load at 60°C

#### Line Regulation

±1%

#### Load Regulation

±1%

#### Set-Up, Rise Time

3000ms, 50ms/230VAC

3000ms, 30ms/115VAC at Full Load

#### Hold Up Time (Typ.)

50ms / 230VAC

20ms / 115VAC at Full Load

#### DC OK Active Signal

Relay Contact Rating: 30V/1A

### PROTECTION SPECIFICATIONS

#### Short Circuit/ Overload

Overload Power

105 - 150% of rated output power, 100W

Overload Protection Type

Constant Current Limiting Recovers automatically after fault condition is removed

#### Over Voltage

Rated Voltage 57.6 - 64.8VDC

Over Voltage Protection Type

Shutdown output voltage, re-power on to recover

#### Over Temperature

Rated Temperature 90°C ± 10°C detection on power transistor heat sink

Over Temperature Protection Type

Shutdown output voltage, re-power on to recover

### ENVIRONMENTAL SPECIFICATIONS

#### Air temperature

System On -10 to 60°C

System Off -40 to 85°C

#### Operating Humidity (non-condensing)

20% to 90%

#### Vibration

Component : 10 - 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes

Mounting : IEC60068-2-6 compliant

#### Mean time between failures

39.5 years

### EXPORT INFORMATION

#### Packaged Shipping Weight

1.0 lb

#### Package Dimensions

4.5" x 2.5" x 4.1"

#### UPC Code

7-56727-32122-4

#### ECCN

4A994

#### Schedule B Number

8504.40.6007

#### Warranty

3 Year

### 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

UL60950

#### 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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