

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

