

MEANWELL SDR-480-48

Part Number: 32124-8



KEY FEATURES AND BENEFITS

- Output adjustable from 48-55VDC
- Rated power 480 watts
- High efficiency 94% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.94
- Protections: short circuit / overload / over voltage / over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test

PRODUCT DESCRIPTION

The Mean Well SDR-480-48 is an industrial DIN rail power supply with 94% efficiency and built-in protections against short circuits, overloads, over voltage and over temperature.

This power supply is ideal for PoE and PoE Plus applications because it provides 48 volts and 480

watts to power multiple high-power devices. With UL 508 (industrial control equipment) approval and a wide operating temperature range the SDR-480-48 is reliable in even the most demanding environments.

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

4.9" x 3.4" x 5.1"

Product Weight

3.4 lb

INPUT SPECIFICATIONS

Connector Type

Screw Terminals

AC Voltage Range

90 - 264VAC

Frequency Range

47 - 63Hz

Power Factor (PF Typ.)

≥ 0.94 / 230VAC

≥ 0.99 / 115VAC

DC Voltage Range

127 - 370VDC

Efficiency (Typ.)

94%

AC Current (Typ.)

5A / 115VAC

2.5A / 230VAC

Inrush Current (Typ.)

40A / 115VAC at Cold Start

80A / 230VAC at Cold Start

Leakage Current

< 0.8mA / 240VAC

OUTPUT SPECIFICATIONS

Connector Type

Screw Terminals

DC Voltage

48VDC

Rated Current

10A

Current Range

0 - 10A

Rated Power

480W

Voltage Adjustable Range

48 - 55VDC

Voltage Tolerance

±1%

Ripple and Noise (Max.)

120mVp-p

Output Load Derating

80% of full load at 70°C

Line Regulation

±0.5%

Load Regulation

±1%

Set-Up, Rise Time

1500ms, 150ms/230VAC

3000ms, 150ms/ 115VAC at Full Load

Hold Up Time (Typ.)

14ms / 230VAC at Full Load

DC OK Relay Contact Rating

60VDC/0.3A

30VDC/1A

30VAC/0.5A resistive load

PROTECTION SPECIFICATIONS

Short Circuit/ Overload

Overload Power

110 ~ 150% of rated output power for 3 sec.

Overload Protection Type

Constant Current Limiting Recovers automatically after fault condition is removed

Over Voltage

Rated Voltage 56 - 65VDC

Over Voltage Protection Type

Shutdown output voltage with auto-recovery

Over Temperature

Rated Temperature

105°C ± 5°C detection on power transistor heat sink

Over Temperature Protection Type

Shutdown output voltage, recover automatically after temperature drops

ENVIRONMENTAL SPECIFICATIONS

Air temperature

System On -25 to 70°C

System Off -40 to 85°C

Operating Humidity (non-condensing)

20% to 95%

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

12.9 years

EXPORT INFORMATION

Packaged Shipping Weight

3.5 lb

Package Dimensions

6.8" x 4.8" x 6.0"

UPC Code

7-56727-32124-8

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

UL60950, UL508

Other

European Standard: RoHS 2 compliant under CE

Regulatory Approvals

