

# MEANWELLSDR-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.

# HARDWARE

Enclosure

UL Compliant Fully Isolated Plastic Housing

Installation Method

DIN RAIL (35MM)

DIN Rail Spec

LED Indicators

Output Voltage Status

Dimensions

4.9" x 3.4" x 5.1"

Product Weight

3.4 lb

# INPUT SPECIFICATIONS

Connector Type

AC Voltage Range

Frequency Range

Power Factor (PF Typ.)

≥ 0.94 / 230VAC ≥ 0.99 / 115VAC

DC Voltage Range

Efficiency (Typ.)

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

DC Voltage

Rated Current

**Current Range** 

0 - 10A

Rated Power

Voltage Adjustable Range

Voltage Tolerance

Ripple and Noise (Max.)

120mVp-p
Output Load Derating

Line Regulation

Load Regulation

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 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** 

**Package Dimensions** 

UPC Code 56727-32124-8

ECCN

4A994

Schedule B Number

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-

IEC 1000-4-3/EN61000-4-3: Radiated Radio-Frequency (RP)
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

UL60950, UL508

Safety

Other European Standard: RoHS 2 compliant under CE

**Regulatory Approvals** 





**Warranty Information** Comtrol offers a 30-day satisfaction guarantee and

3-year limited warranty.

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