

SDR-240-48

240W/5A DIN-Rail 48VDC Industrial Power Supply



Features

- -25°C to 70°C operating temperature range
- High efficiency 94% and low power dissipation
- Short circuit/over load/over voltage/over temperature protections
- Can be installed on DIN-Rail TS-35/7.5 or 15
- UL508 (industrial control equipment) approved



Hardware Specifications

Power

Power Input

- Voltage Range: 88 to 264VAC; 124 to 370VDC
- Frequency Range: 47 to 63Hz
- Power Factor(Typ.): 0.93 / 230VAC; 0.99 / 115VAC at full load
- Efficiency: 94%
- AC Current (Typ.): 2.6A / 115VAC; 1.3A / 230VAC
- Inrush Current (Typ.): 33A / 115VAC; 65A / 230VAC
- Leakage Current: <1mA / 240VACC

Power Output

- DC Voltage: 48V
- Rated Current: 5A
- Current Range: 0 to 5A
- Rated Power: 240W
- Peak Current: 7.5A
- Peak Power: 360W (3 sec.)
- Ripple & Noise (max.): 120mVp-p
- Voltage Adj. Range: 48 to 55V
- Voltage Tolerance: + / - 1.0%
- Line Regulation: + / - 0.5%
- Load Regulation: + / - 1.0%
- Setup, Rise Time: 1500ms, 60ms / 230VAC; 3000ms, 60ms / 115VAC at full load
- Hold up Time: 20ms / 230VAC; 20ms / 115VAC at full load

Mechanical

Casing

- Aluminum case

Dimensions

- 63mm (W) x 113.5mm (D) x 125.2 mm(H)
(2.52" (W) x 4.54" (D) x 5.00" (H))

Weight

- 1.03kg (2.27 lb)

Installation

- DIN-Rail

Protection

Over Voltage Protection

- 56 to 65V
- Protection type : Shut down o/p voltage with auto-recovery

Over Load Protection

- Normally works within 110 to 150% rated output power for more than 3 seconds and then shut down o/p voltage

- >150% rated power, constant current limiting with auto-recovery within 2 seconds and may cause to shut down if over 2 seconds

Over Temperature Protection

- 95°C + / - 5°C (TSW: detect on heatsink of power switch)
- Protection type: Shut down o/p voltage, recovers automatically after temperature goes down

Environment

Operating Temperature

- -25°C to 70°C (Refer to output load derating curve)

Storage Temperature

- -40°C to 85°C (-40°F to 158°F)

Working Humidity

- 20% to 90%RH non-condensing

Storage Humidity

- 10% to 95%RH

Regulatory Approvals

Safety

- UL508, TUV EN60950-1 approved

EMC

- EN55022 (CISPR22) Class B
- Withstand Voltage:
 - I/P-O/P: 3KVAC
 - I/P-FG: 1.5KVAC
 - O/P-FG: 0.5KVAC
 - O/P-DC OK: 0.5KVAC
- Isolation Resistance:
 - I/P-O/P
 - I/P-FG
 - O/P-FG: >100M Ohms / 500VDC

EMS

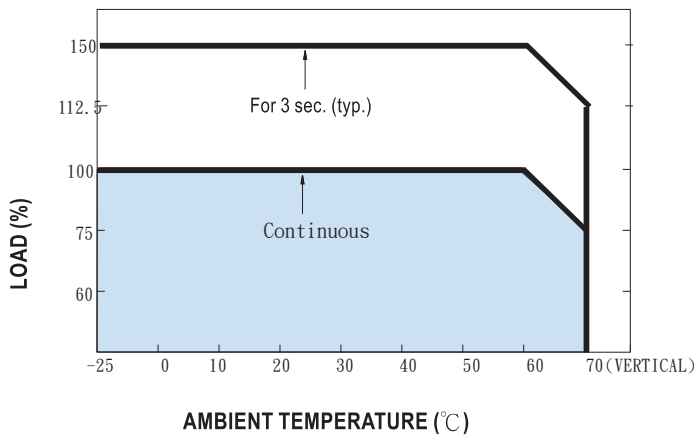
- EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61204-3, EN61000-6-2 (EN50082-2), Heavy industry level, criteria A approved

Environmental Test Compliance

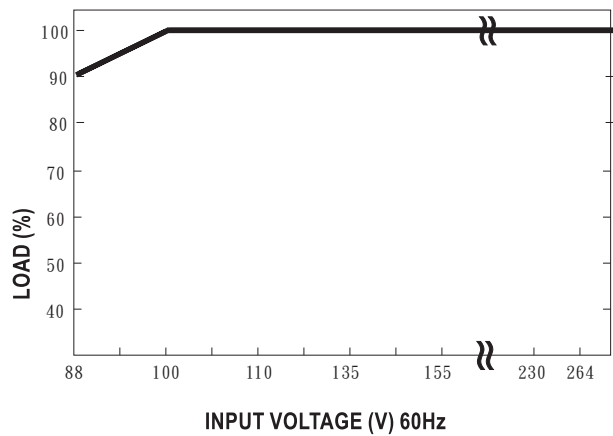
- Vibration
 - 10 to 500Hz, 2G 10min./1 cycle, period for 60 min. each along X, Y, Z axes

Derating Curves

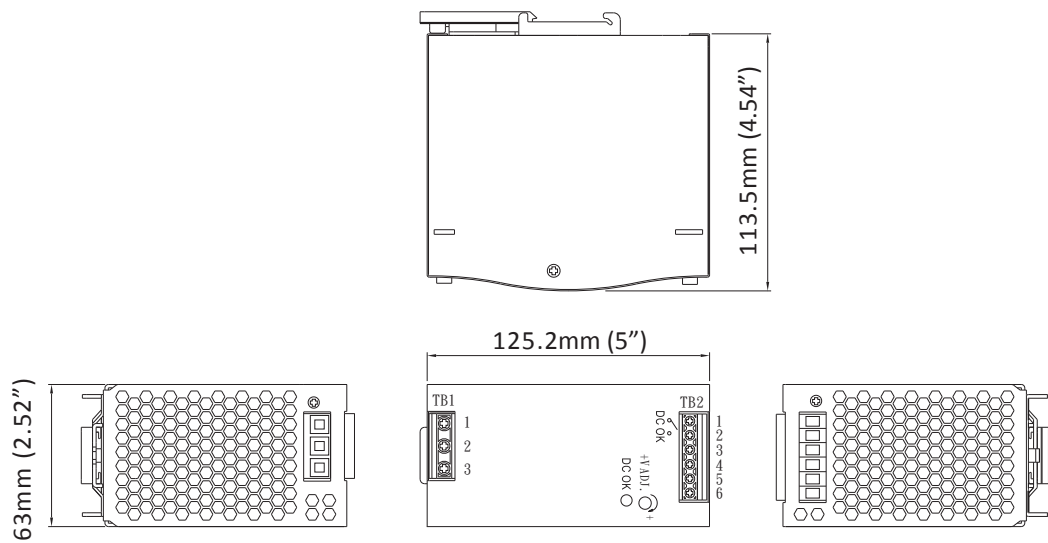
Derating Curve



Output derating VS input voltage



Dimensions



Ordering Information

Model

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