

DR-120-48

120W/2.5A DIN-Rail 48VDC Industrial Power Supply



Features

- -10°C to 60°C operating temperature range
- Can be installed on DIN-rail TS-35/7.5 or 15
- Short circuit/over load/over voltage/over temperature
- UL508 (industrial control equipment) approved



Hardware Specifications

Power

Power Input

- Voltage Range: 88 to 132VAC / 176 to 264VAC by switch ; 248 to 370VDC
- Frequency Range: 47 to 63Hz
- Efficiency: 85%
- AC Current (Typ.): 2.6A / 115VAC; 1.6A / 230VAC
- Inrush Current (Typ.): Cold Start 20A / 115VAC; 40A / 230VAC
- Leakage Current: <3.5mA / 240VAC

Power Output

- DC Voltage: 48V
- Rated Current: 2.5A
- Current Range: 0 to 2.5A Rated Power: 120W
- Ripple & Noise (max.): 100mVp-p Voltage Adj.
- Range: 48 to 53V
- Voltage Tolerance: $\pm 1.0\%$
- Line Regulation: $\pm 0.5\%$
- Load Regulation: $\pm 1.0\%$
- Setup, Rise Time: 500ms, 70ms / 230VAC; 500ms, 70ms / 115VAC at full load
- Hold up Time: 36ms / 230VAC; 32ms / 115VAC at full load

Mechanical

Casing

- Aluminum case

Dimensions

65.5mm (W) x 100mm (D) x 125.2 mm(H)
(2.62" (W) x 4.00" (D) x 5.00" (H))

Weight

- 0.79kg (1.74 lb)

Installation

- DIN-Rail

Protection

Over Voltage Protection

- 58 to 65V
- Protection type : Shut down o/p voltage, re-power on to recover

Over Load Protection

- 105 to 150% rated output power
- Protection type : Constant current limiting, recovers automatically after fault condition is removed

Over Temperature Protection

- 90°C + / - 5°C (TSW1) Protection type: Shut down o/p voltage, recovers automatically after temperature goes down

Environment

Operating Temperature

- -10°C to 60°C (Refer to output load derating curve)

Storage Temperature

- -20°C to 85°C (-4°F to 158°F)

Working Humidity

- 20% to 90%RH non-condensing

Storage Humidity

- 10% to 95%RH

Regulatory Approvals

Safety

- UL508, UL60950-1, TUV EN60950-1 approved

EMC

- EN55011
- EN55022 (CISPR22) Class B
- EN61000-3-2, -3
- Withstand Voltage:
 - I/P-O/P: 3KVAC
 - I/P-FG: 1.5KVAC
 - O/P-FG: 0.5KVAC
- Isolation Resistance:
 - I/P-O/P
 - I/P-FG
 - O/P-FG: 100M Ohms / 500VDC

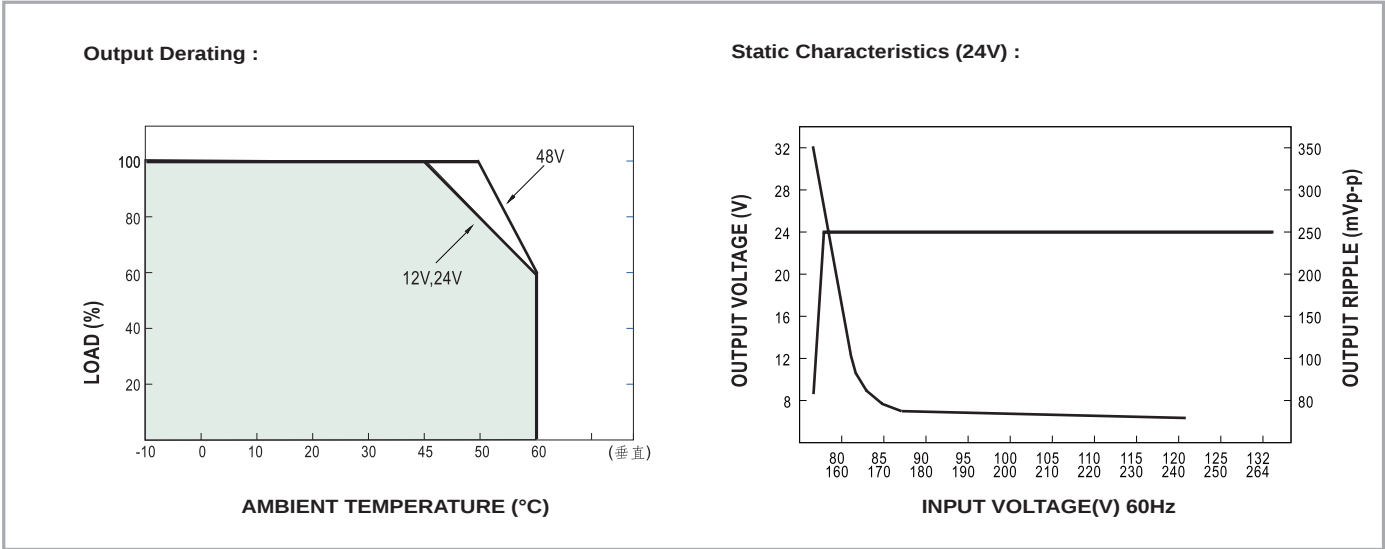
EMS

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

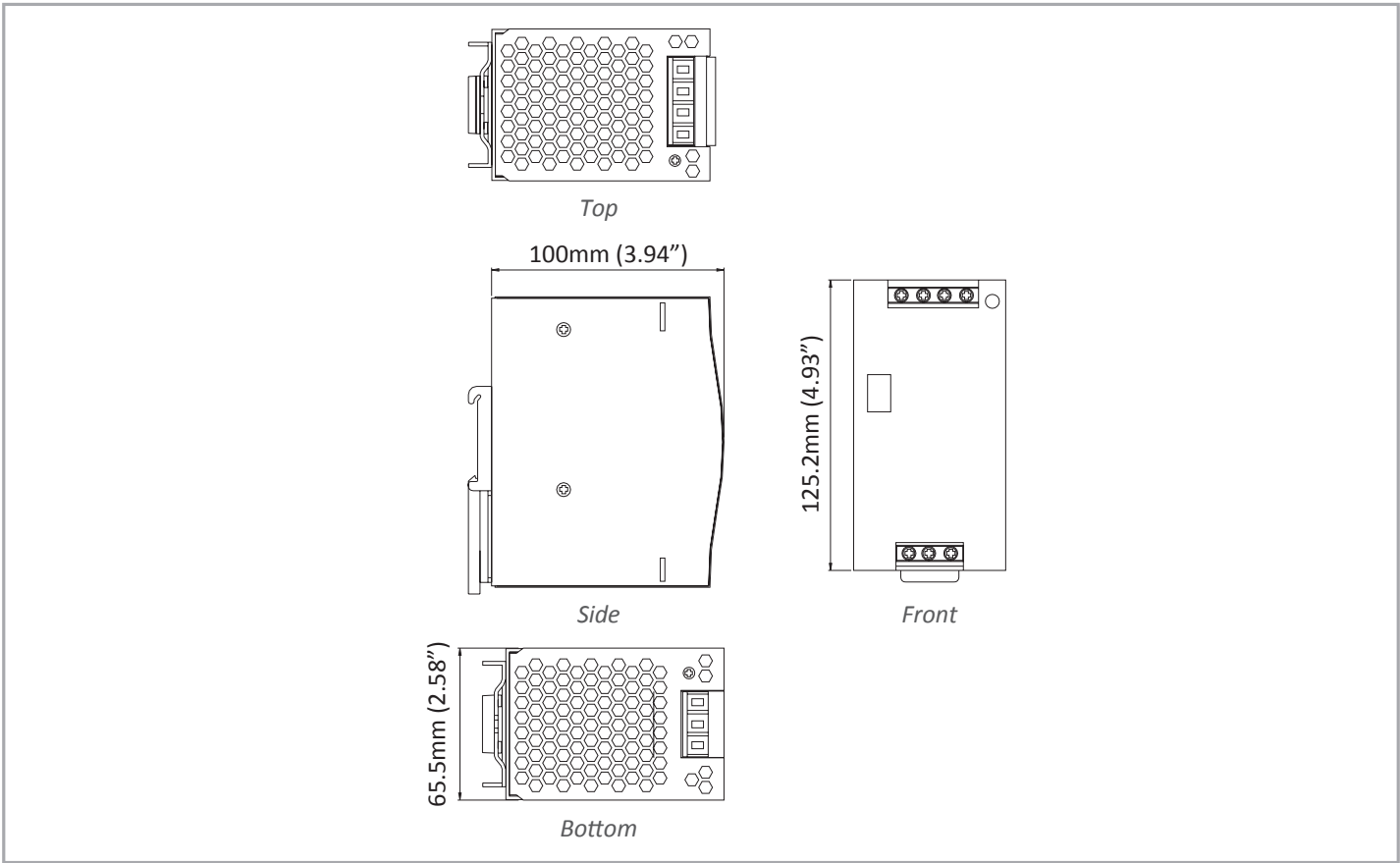
Environmental Test Compliance

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

Derating Curves



Dimensions



Ordering Information

Model

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