

# DR-30-24

30W/1.5A 24VDC DIN-Rail Industrial Power Supply



## Features

- -20°C to 60°C operating temperature range
- Can be installed on DIN-rail TS-35 / 7.5 or 15
- Protections: Short circuit / Over load / Over voltage
- UL60950-1, TUV EN60950-1 approved
- Universal AC input / Full range

## Hardware Specifications

### Power

#### Power Input

- Voltage Range: 85 to 264VAC, or 120 to 370VDC
- Frequency Range: 47 to 63Hz
- Efficiency: 83%
- AC Current (Typ.): 0.88A / 115VAC; 0.48A / 230VAC
- Inrush Current (Typ.): Cold Start 15A / 115VAC; 30A / 230VAC

#### Power Output

- DC Voltage: 24V
- Rated Current: 1.5A
- Current Range: 0 to 1.5A
- Rated Power: 36W
- Ripple & Noise (max.): 150mVp-p
- Voltage Adj. Range: 21.6 to 26.4V
- Voltage Tolerance: + / - 1.0%
- Line Regulation: + / - 1.0%
- Load Regulation: + / - 1.0%
- Setup, Rise Time: 100ms, 30ms / 230VAC;  
100ms, 30ms / 115VAC  
at full load
- 100ms, 30ms / 115VAC at full load
- Hold up Time: 100ms / 230VAC; 100ms, 21ms / 115VAC at full load

### Mechanical

#### Casing

- Plastic case

#### Dimensions

- 78mm (W) x 56mm (D) x 93 mm(H)  
(3.12" (W) x 2.24" (D) x 3.72" (H))

#### Weight

- 0.27kg (0.59 lb)

#### Installation

- DIN-Rail

### Protection

#### Over Voltage Protection

- 27.6 to 32.4V
- Protection type : Shut down o/p voltage, re-power on to recover

#### Over Load Protection

- 105 to 160% rated output power
- Protection type : Constant current limiting, recovers automatically after fault condition is removed

### Environment

#### Operating Temperature

- -20°C to 60°C (Refer to output load derating curve)

#### Storage Temperature

- -40°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

- UL60950-1, TUV EN60950-1, design refer to EN50178

#### EMC

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

### EMS

EN61000-4-2,3,4,5,6,8,11

ENV50204

EN55024

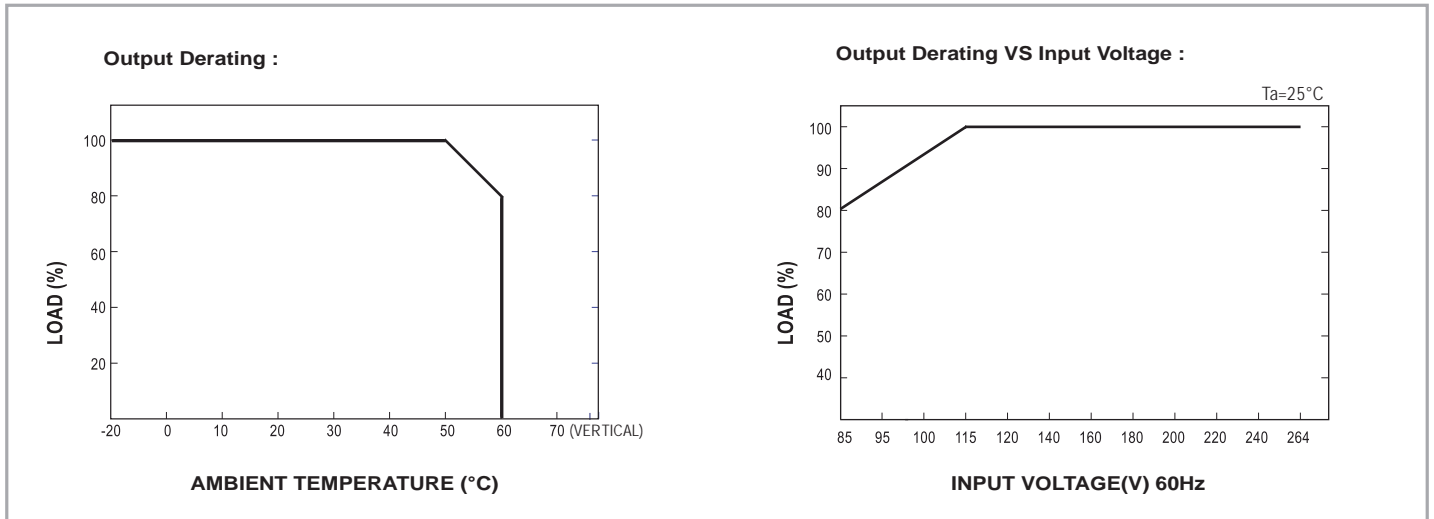
EN61000-6-2

EN61204-3 Heavy industry level, criteria A

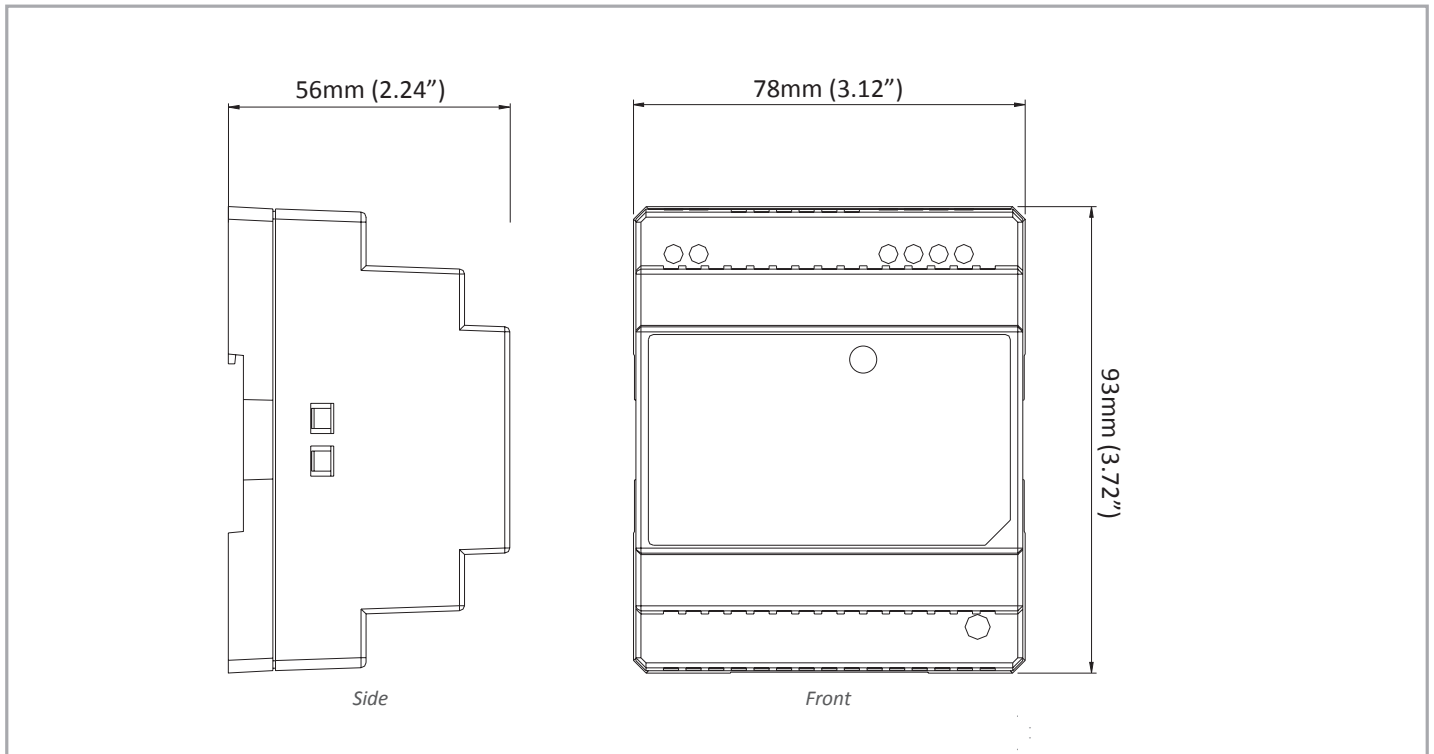
### Environmental Test Compliance

- 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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