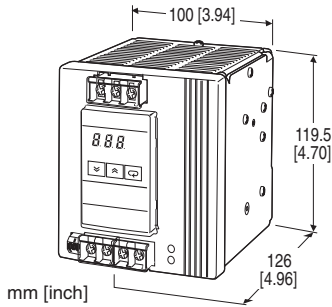


## DC POWER SUPPLY

(maintenance forecast monitor function, capacity 240 W)

### Functions & Features

- Accepts 100 - 240 V AC and provides regulated 24 V DC output
- Maintenance forecast monitor function



## MODEL:MDC7-24024A-M2

## ORDERING INFORMATION

- Code number: MDC7-24024A-M2

## CAPACITY

240: 240 W

## OUTPUT VOLTAGE

24: 24 V DC

## MONITOR

A: Maintenance forecast monitor function

## POWER INPUT

AC Power

M2: 100 - 240 V AC

## GENERAL SPECIFICATIONS

**Construction:** Front terminal access; terminal cover provided

**Connection**

**Power input, output voltage:** M4 screw terminals (torque 1.08 N·m)

**Alarm output:** Applicable wire size: 0.081 to 0.823 mm<sup>2</sup>, stripped length: 9 to 10 mm

**Screw terminal:** Nickel-plated steel

**Housing material:** Flame-resistant resin (beige); aluminum

## SUPPLY OUTPUT

**Output voltage:** 24 V DC -10/+15 %; adjustable on the front (ripple 2.0 %p-p max.)

**Load current:** ≤ 10 A

**Overload protection:** Voltage drop characteristics (105 %)

**Overload detecting:** 105 % of the rated current

### ■ Alarm Output

**Transistor:** NPN (sink) type; 30 V DC max., 50 mA DC max.

**Residual voltage at ON:** ≤ 2 V

**Leakage current at OFF:** ≤ 0.1 mA

## INSTALLATION

### Power input

**AC:** Operational voltage range 85 - 264 V AC 50/60 Hz

**Operating temperature:** 0 to 50°C (32 to 122°F)

**Operating humidity:** 25 to 85 % RH (non-condensing)

**Mounting:** DIN rail

**Weight:** 1150 g (2.54 lb)

## PERFORMANCE

**Temp. coefficient:** ±0.05 %/°C (±0.03 %/°F)

**Load effect:** ≤ 1.5 %

**Line voltage effect:** ±0.5 % over voltage range

**Insulation resistance:** ≥ 100 MΩ with 500 V DC

**Dielectric strength:** 3000 V AC @ 1 minute

(output voltage or alarm output to power input)

2000 V AC @ 1 minute (power input to ground)

1000 V AC @ 1 minute (output voltage or alarm output to ground)

## STANDARDS & APPROVALS

### EU conformity:

EMC Directive

EN 61204-3 (Class A)

Low Voltage Directive

EN 62477-1

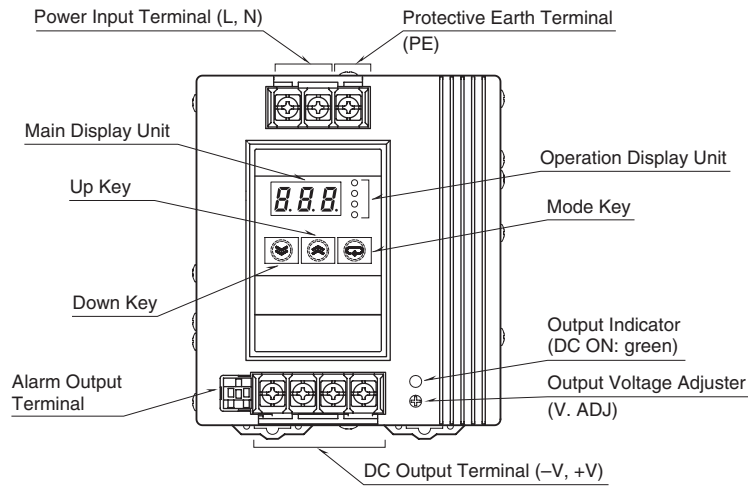
RoHS Directive

### Approval:

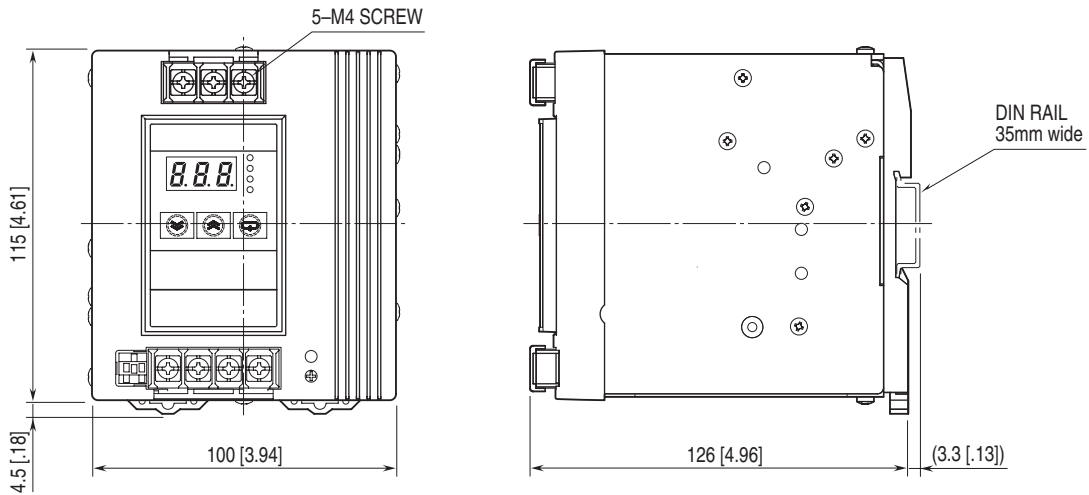
UL 508 (Class 2: per UL 1310)

CAN/CSA C22.2 No.14

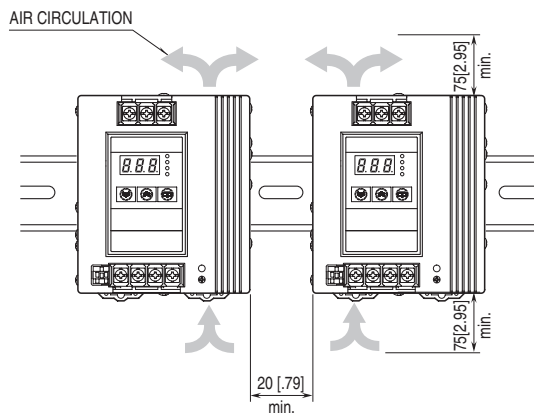
## EXTERNAL VIEW



## EXTERNAL DIMENSIONS unit: mm [inch]

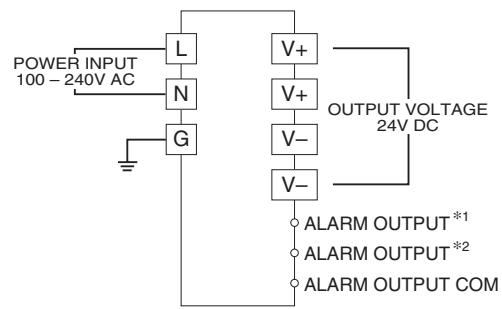


## MOUNTING REQUIREMENTS unit: mm [inch]



Heat dissipation is important to ensure the power supply's long-term reliability. The power supply is designed to radiate heat by means of natural air flow. Install the power supply so that the air flow circulates around it.

## CONNECTION DIAGRAM



\*1. Undervoltage alarm output terminal (DC LOW)

\*2. Maintenance forecast monitor terminal (Yrs)



Specifications are subject to change without notice.