

<b>DC POWER SUPPLY</b> (maintenance forecast monitor function)	MODEL <b>MDC6</b>
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**MODEL & SUFFIX CODE SELECTION**

**MDC6-12024A-M2**

MODEL \_\_\_\_\_

CAPACITY \_\_\_\_\_

120 : 120W

OUTPUT VOLTAGE \_\_\_\_\_

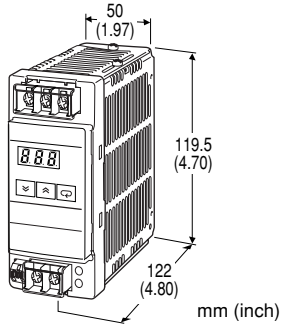
24 : 24V DC





MONITOR \_\_\_\_\_

A : Maintenance forecast monitor function

POWER INPUT \_\_\_\_\_

M2 : 100 – 240V AC



**Functions & Features**

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

**ORDERING INFORMATION**

Specify code number. (e.g. MDC6-12024A-M2)

**GENERAL SPECIFICATIONS**

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

**Connection:** M4 screw terminals  
(nickel-plated steel; torque 1.08 N·m)

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

**OUTPUT**

■ **SUPPLY OUTPUT**

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

**Load current:** ≤5A

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

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

■ **ALARM OUTPUT**

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

**Residual voltage at ON:** ≤2V

**Leakage current at OFF:** ≤0.1mA

**INSTALLATION**

**Power input:** Operational voltage range 85 – 264V 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

**Dimensions:** W50×H119.5×D122 mm  
(1.97"×4.70"×4.80")

**Weight:** 550 g (1.21 lbs)

**PERFORMANCE**

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

**Load effect:** ≤1.5%

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

**Insulation resistance:** ≥100MΩ with 500V DC  
(output to power input or ground)

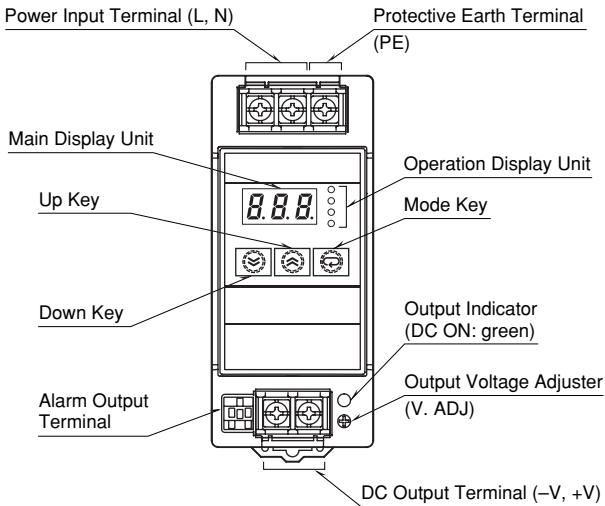
**Dielectric strength:** 3000V AC @1 minute  
(output to power input)  
2000V AC @1 minute  
(power input to ground)  
1000V AC @1 minute  
(output to ground)

**STANDARDS & APPROVALS**

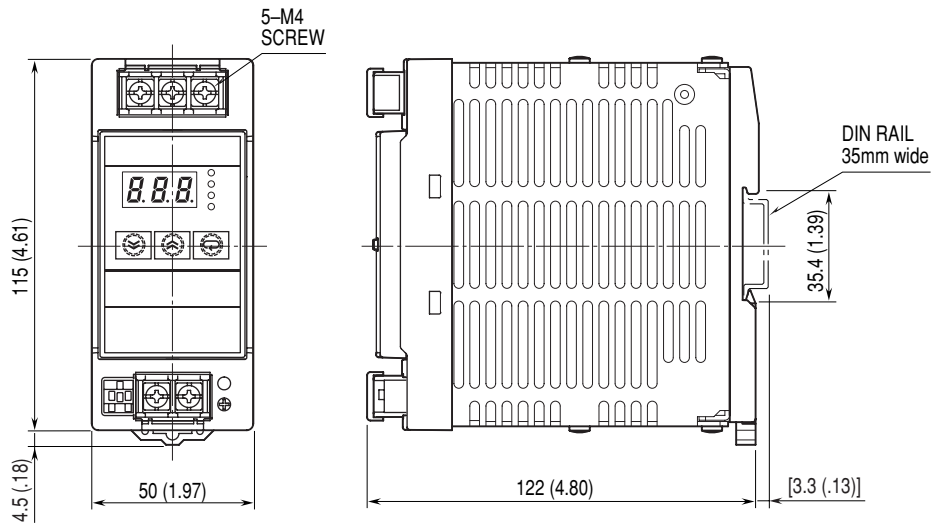
**CE conformity:** EMC Directive (89/336/EEC)  
EN61204-3 (Class A)  
Low Voltage Directive (73/23/EEC)  
EN50178  
EN60950-1

**Approval:** UL 508 (Class 2: per UL 1310)  
CAN/CSA C22.2 No.14  
UL 60950-1 (Class 2)  
CAN/CSA C22.2 No.60950-1  
VDE1060, VDE0805

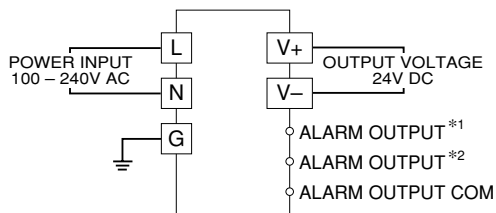
**FRONT PANEL CONFIGURATION**



**EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT mm (inch)**

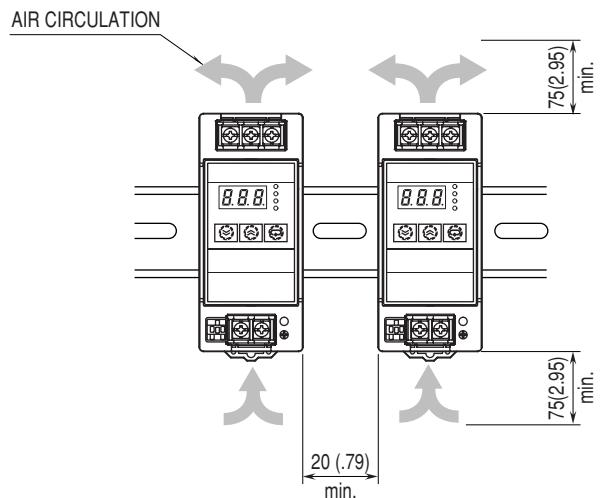


**CONNECTION DIAGRAM**



\*1. Undervoltage alarm output terminal (DC LOW)  
 \*2. Maintenance forecast monitor terminal (Yrs)

**MOUNTING REQUIREMENTS 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.