

# 12038VA-48R-EL-01 NMB 48V 0.90A 120mm 12038 DC Axial Fan

**SKU:** 12038VA-48R-EL-01

**Price:** \$16.99

**Categories:** Fans

**Tags:** NMB

**Product Link:**

<https://www.elecspares.com/product/12038va-48r-el-01-nmb-48v-0-90a-120mm-12038-dc-axial-fan/>

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## Product Description

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The NMB 12038VA-48R-EL-01 is an ultra-high-output industrial DC axial fan, identified by its "12038" size code, specifically engineered for extreme thermal management in 48V infrastructure. This 120 x 120 x 38 mm unit features a precision dual ball bearing system and a specialized 5-blade high-velocity impeller designed for maximum air displacement. Operating at 48 VDC with a heavy-duty current draw of 0.90 A (43.20 W), it delivers a super-high rotational speed of 5500 RPM, producing a massive 200.30 CFM of airflow. The 3-wire configuration includes a dedicated Speed Sensor (FG) signal for real-time monitoring. Built with a brushless DC motor and advanced electronic protection, this fan is a critical cooling component for enterprise-grade power rectifiers, high-capacity industrial inverters, and outdoor telecommunications cabinets requiring extreme heat dissipation under high static pressure.

12038VA-48R-EL-01 Fan Parameters

Manufacturer: NMB (MinebeaMitsumi)

Model Number: 12038VA-48R-EL-01

Industry Size Code: 12038

Type: DC axial fan

Bearing Type: Dual Ball Bearing

Nominal Voltage: 48 VDC

Voltage Range: 28.0 - 56.0 VDC

Starting Voltage: 28.0 VDC

Dimensions: 120 x 120 x 38 mm

[Electrical Data]

Input Power: 43.20 W

Nominal Current: 0.90 A

Max. Current: 1.10 A

Nominal Speed: 5500 RPM (Tolerance  $\pm 10\%$ )

Motor Design: Brushless DC Motor, 4-pole

Signal Output: FG (Frequency Generator/Tachometer)

Motor Protection: Auto Restart, Polarity Protection, Locked Rotor Protection

Insulation Resistance: 10M ohm at 500 VDC

Dielectric Strength: 700 VAC for 1 minute

Termination: 3-Lead wires (UL1007, AWG#24, Red/Black/White)

[Performance & Acoustics]

Max. Air Flow: 200.30 CFM (340.31 m<sup>3</sup>/h / 5.67 m<sup>3</sup>/min)

Max. Static Pressure: 28.50 mmH<sub>2</sub>O (279.49 Pa / 1.12 inH<sub>2</sub>O)

Sound Pressure Level: 62.0 dB(A) (Measured at 1 meter)

Number of Blades: 5

Direction of Rotation: Counter-clockwise (viewed toward impeller)

Airflow Direction: Intake over struts

[Materials & Construction]

Frame Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Installation Position: Any

Degree of Protection: IP54

[Reliability & Safety Standards]

Min. Ambient Temperature: -10 °C

Max. Ambient Temperature: 70 °C

Life Expectancy (L10): 70,000 hours at 40 °C

Standard Compliance: IEC 60950-1, EN 61000-6-1/3

Approval Agency: UL, CSA, VDE, CE, RoHS

Application

The NMB 12038VA-48R-EL-01 axial fan is used in 48V DC power supply systems, telecommunications base stations, outdoor network cabinets, high-capacity industrial inverters, and server rack cooling modules.

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## Product Images

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Scan for product details:

