

# 12038GE-12M-YU NMB 12VDC 120x120x38mm Cooling Fan Datasheet



**Brand:** NMB

**SKU:** 906243698773

**Category:** Axial & Centrifugal Fans

**Price:** **\$12.99**

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Product Page:

<https://www.equipspares.com/product/12038ge-12m-yu-nmb-12vdc-120x120x38mm-cooling-fan>

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## Product Description

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The NMB 12038GE-12M-YU is a DC Axial Fan engineered for critical thermal management in refrigeration and industrial environments. Manufactured by MinebeaMitsumi, this unit integrates precision double ball bearing architecture to minimize friction and extend operational service life under continuous load. The aerodynamic impeller design optimizes airflow efficiency while maintaining a balanced acoustic profile, ensuring effective heat dissipation. Constructed with high-grade UL94V-0 thermoplastic, the frame offers superior structural rigidity and resistance to environmental stressors. Its electrical commutation system ensures stable torque delivery and low thermal impedance, making it a robust solution for demanding cooling requirements.

Model Number: 12038GE-12M-YU

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 6.0 - 13.8 VDC

Rated Current: 0.26 A

Power Input: 3.12 W

Rated Speed: 2600 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 95.0 CFM (161.4 m<sup>3</sup>/h / 2.69 m<sup>3</sup>/min)

Max. Static Pressure: 6.5 mmH<sub>2</sub>O (63.7 Pa / 0.25 inH<sub>2</sub>O)

Dimensions: 120mm x 120mm x 38mm

Weight: 270 g

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

Noise Level: 39.0 dBA

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Termination: 4-Wire Lead

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Insulation Resistance: 10M  $\Omega$  min. at 500VDC

Dielectric Strength: 700VAC for 1 sec

Motor Protection: Locked Rotor Protection, Reverse Polarity Protection

Mounting Orientation: Any

Application: Refrigerator Evaporator/Condenser, Server Cabinets

The 12038GE-12M-YU is specifically calibrated for integration into commercial and residential refrigeration systems, including Haier refrigerator cooling and freezing compartments. Beyond cold chain logistics, this unit serves effectively in server rack ventilation, telecommunications cabinets, and industrial automation control panels where consistent airflow is mandatory. The 12038GE-12M-YU ensures reliable thermal regulation in enclosed electronics, preventing component degradation due to heat accumulation in continuous-duty cycles.

## Supplemental Images

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