

# 08025SA-12R-ET-01 NMB 12VDC 80x80x25mm 0.50A Axial Fan Datasheet



**Brand:** NMB

**SKU:** [1007995754097](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$16.99**

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Product Page:

<https://www.equipspares.com/product/08025sa-12r-et-01-nmb-12vdc-80x80x25mm-0-50a-axial-fan>

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## Product Description

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The NMB 08025SA-12R-ET-01 is a precision-engineered DC Axial Fan designed for critical thermal management in high-density industrial environments. Manufactured by MinebeaMitsumi, this unit leverages advanced aerodynamic blade geometry to minimize turbulence while maximizing static pressure delivery, ensuring efficient heat dissipation in restricted spaces. The core architecture features a robust double ball bearing system, ensuring exceptional longevity and reduced frictional coefficients under continuous operation. Constructed with a high-rigidity PBT frame, the fan maintains structural integrity against thermal impedance and vibration. Its 3-wire configuration supports tachometer signal output, allowing for precise speed monitoring in feedback-loop control systems, making it ideal for high-reliability power conversion applications.

Model Number: 08025SA-12R-ET-01

Brand: NMB (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.50 A

Power Consumption: 6.00 W

Rated Speed: 4500 RPM

Bearing Type: Double Ball Bearing

Max. Air Flow: 60.0 CFM (101.94 m<sup>3</sup>/h / 1.70 m<sup>3</sup>/min)  
Max. Static Pressure: 8.00 mmH<sub>2</sub>O (78.45 Pa / 0.31 inH<sub>2</sub>O)  
Dimensions: 80x80x25mm  
Weight: 95 g  
Life Expectancy: 70,000 Hours @ 40°C  
Noise Level: 44.0 dBA  
Termination: 3-Wire (Lead Wire)  
Speed Control: Tachometer Output (FG Signal)  
Housing Material: PBT (UL94V-0)  
Blade Material: PBT (UL94V-0)  
Operating Temperature: -10°C to +70°C  
Storage Temperature: -40°C to +70°C  
Ingress Protection: IP20  
Insulation Resistance: 10M Ohm at 500VDC  
Dielectric Strength: 700VAC for 3 Seconds  
Protection: Auto Restart / Polarity Protection  
Mounting Orientation: Any

This cooling solution is specifically engineered for demanding thermal regulation in power electronics and industrial automation sectors. The 08025SA-12R-ET-01 is frequently deployed in photovoltaic power supply units and solar inverters where consistent airflow is required to dissipate heat generated by MOSFETs and capacitors. Additionally, the 08025SA-12R-ET-01 serves as a critical component in server cabinets and telecommunication enclosures, ensuring optimal operating temperatures for sensitive circuitry. Its robust design also suits CNC machinery and medical instrumentation requiring reliable forced convection.

## Supplemental Images

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