# 04520GA-12N-AU-D2 NMB 12VDC 45x45x20mm PWM Blower Fan Datasheet


**Brand:** NMB

**SKU:** 991077829448

**Category:** Axial & Centrifugal Fans

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

**E-mail:** sales@equipspares.com

**Web:** https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/04520ga-12n-au-d2-nmb-12vdc-45x45x20mm-pwm-blower-fan

## Product Description

The NMB 04520GA-12N-AU-D2 is a precision-engineered Centrifugal Blower designed for high-density thermal management applications requiring concentrated airflow. Utilizing advanced DC brushless motor technology paired with a robust dual ball bearing architecture, this unit ensures minimized friction and extended operational longevity under continuous loads. The aerodynamic scroll housing is optimized to deliver high static pressure, effectively overcoming significant thermal impedance in restricted spaces. Its structural rigidity and UL94V-0 rated construction make it suitable for industrial environments requiring reliable heat dissipation and precise speed control via its integrated 4-wire PWM interface.

Model Number: 04520GA-12N-AU-D2
Brand: NMB Technologies
Product Type: Centrifugal Blower
Rated Voltage: 12 VDC
Voltage Range: 10.2 - 13.8 VDC
Rated Current: 0.24 A
Power Consumption: 2.88 W
Rated Speed: 6500 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 4.94 CFM (8.4 $m^3/h$ / 0.14 $m^3/min$)

Max. Static Pressure: 14.5 mm$H_2O$ (142.2 Pa / 0.57 in$H_2O$)
Dimensions: 45 x 45 x 20 mm
Weight: 30 g
Life Expectancy: 70,000 Hours at 40°C
Termination: 4-Wire Leads (PWM/Tachometer)
Speed Control: PWM Signal Input
Sensor Output: Tachometer (RPM Signal)
Housing Material: Plastic (UL94V-0)
Impeller Material: Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Noise Level: 36.0 dBA
Insulation Resistance: 10M Ohm at 500VDC
Dielectric Strength: 700VAC for 1 Second

The 04520GA-12N-AU-D2 is specifically engineered for applications demanding high static pressure in compact form factors, such as 1U server racks, projector cooling systems, and compact medical instrumentation. Its concentrated airflow capability makes the 04520GA-12N-AU-D2 ideal for directing air through dense heatsinks in industrial automation equipment, 3D printers, and telecommunications devices where space is at a premium and thermal reliability is critical.

## Supplemental Images