

GB1245PKV1-8AY.11.FX.GN SUNON 12VDC 45x45x20mm MagLev Blower Datasheet



Brand: SUNON

SKU: 990071760525

Category: Axial & Centrifugal Fans

Price: \$12.99

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Product Page:

<https://www.equipspares.com/product/gb1245pkv1-8ay-11-fx-gn-sunon-12vdc-45x45x20mm-maglev-blower>

Product Description

The SUNON GB1245PKV1-8AY.11.FX.GN is a precision-engineered centrifugal blower designed for high-static pressure applications within compact enclosures. Utilizing SUNON's proprietary MagLev (Magnetic Levitation) motor technology combined with a Vapo bearing system, this unit eliminates physical contact between the shaft and bearing, significantly reducing friction and noise while extending operational lifespan. The aerodynamic volute design optimizes airflow trajectory, ensuring efficient thermal dissipation in high-impedance environments. Constructed with UL94V-0 rated materials, this 12VDC blower maintains structural rigidity under thermal stress, making it an ideal solution for precision electronics requiring reliable forced convection cooling.

Model Number: GB1245PKV1-8AY.11.FX.GN

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Product Type: DC Centrifugal Blower

Rated Voltage: 12VDC

Voltage Range: 6.0 - 13.8 VDC

Power Consumption: 0.50 W

Rated Current: 0.042 A

Rated Speed: 4500 RPM

Bearing Type: MagLev Vapo Bearing

Max. Air Flow: 4.7 CFM (7.98 m³/h / 0.13 m³/min)
Max. Static Pressure: 0.35 inH₂O (8.89 mmH₂O / 87.1 Pa)
Dimensions: 45 x 45 x 20 mm
Weight: 32.0 g
Life Expectancy: 60,000 Hours @ 40°C
Noise Level: 28.5 dB(A)
Termination: 3-Wire (Lead Wire)
Speed Control: Tachometer Output (FG Signal)
Housing Material: PBT (UL94V-0)
Impeller Material: PBT (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP5X (Dust Protected)
Compliance: RoHS, CE, TUV, UL

This centrifugal blower is specifically engineered for applications requiring concentrated airflow in restricted spaces, such as portable projectors and optical equipment. The GB1245PKV1-8AY.11.FX.GN excels in cooling lamp modules and processing chips where traditional axial fans lack the necessary static pressure. Additionally, the GB1245PKV1-8AY.11.FX.GN is frequently integrated into compact server racks, humidifiers, and embedded IoT devices, ensuring critical components remain within safe thermal operating limits through efficient exhaust mechanisms.

Supplemental Images

