

ASB0512HB Delta 12VDC 50x50x15mm PWM Axial Fan Datasheet



Brand: Delta

SKU: [863182785963](#)

Category: Axial & Centrifugal Fans

Price: **\$9.99**

E-mail: sales@equipspares.com

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Product Page: <https://www.equipspares.com/product/asb0512hb-delta-12vdc-50x50x15mm-pwm-axial-fan>

Product Description

The Delta ASB0512HB is a precision-engineered axial fan designed for compact thermal management solutions requiring variable speed control. Utilizing Delta's advanced Sleeve Bearing technology, this unit offers a cost-effective balance between operational longevity and acoustic performance. The 4-wire PWM configuration allows for dynamic duty cycle modulation, enabling precise RPM adjustments based on real-time thermal loads to optimize power consumption and minimize noise generation. Constructed with a high-rigidity PBT frame and impeller, the fan ensures structural integrity under continuous operation, reducing vibration-induced resonance while maintaining consistent airflow impedance in restricted environments.

Model Number: ASB0512HB

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.12 A

Power Consumption: 1.44 W

Rated Speed: 6000 RPM

Bearing Type: Sleeve Bearing

Max. Air Flow: 15.20 CFM (25.82 m³/h / 0.43 m³/min)

Max. Static Pressure: 4.80 mmH₂O (47.07 Pa / 0.19 inH₂O)

Dimensions: 50x50x15mm
Weight: 25.0 g
Noise Level: 32.0 dBA
Speed Control: 4-Wire PWM (Pulse Width Modulation)
Housing Material: Plastic (UL 94V-0)
Impeller Material: Plastic (UL 94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Termination: 4 Lead Wires
Wire Gauge: AWG 28
Insulation Resistance: 10 Megohms min. at 500 VDC
Dielectric Strength: 500 VAC for 1 minute
Life Expectancy: 30,000 Hours at 40°C
Safety Certifications: UL, cUL, TUV, CE

The ASB0512HB is engineered for integration into compact electronic assemblies where space is at a premium and active speed regulation is required. Common deployment scenarios include cooling for network appliances, DVR/NVR security systems, and small form-factor power supplies. The ASB0512HB is also frequently utilized in 3D printer hotend cooling and proprietary industrial control units, where its PWM capability ensures the device operates within optimal thermal envelopes without unnecessary acoustic output during idle states.

Supplemental Images

