

# AB09005HX180B00 ADDA 5V 0.50A DC Centrifugal Blower Fan

**SKU:** AB09005HX180B00

**Price:** \$11.25

**Categories:** Fans

**Tags:** ADDA

**Product Link:**

<https://www.elecspares.com/product/ab09005hx180b00-adda-5v-0-50a-dc-centrifugal-blower-fan/>

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## Product Description

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The ADDA AB09005HX180B00 is a high-performance industrial DC Centrifugal Blower with dimensions of 97 x 94 x 18 mm. Driven by a precision 4-pole Brushless DC Motor, this model is engineered as an intelligent localized cooling solution operating on a nominal 5 VDC. It delivers a powerful airflow performance driven by a rated current of 0.50 A and a power input of 2.5 W. Featuring a specialized centrifugal turbine design, it is optimized to generate high static pressure (0.58 inAq) to exhaust heat through narrow lateral paths. This specialized 4-wire version includes both a tachometer signal for monitoring and a PWM input for precise variable speed control. Equipped with a premium dual-ball bearing system, the AB09005HX180B00 provides mission-critical thermal management for slim-profile industrial inverters, networking hardware, and compact automation systems.

AB09005HX180B00 Fan Parameters

Manufacturer: ADDA

Model Number: AB09005HX180B00

Motor Design: Brushless DC Motor (4-Pole)

Type: DC Centrifugal Blower (4-Wire PWM Series)

Dimensions: 97 x 94 x 18 mm

Impeller Size: 75 mm

Nominal Voltage: 5 VDC

Operating Voltage Range: 4.5 to 5.5 VDC

Starting Voltage: 3.5 VDC

Speed: 3500 RPM (at 100% PWM)

Power Input: 2.5 W

Rated Current: 0.50 A

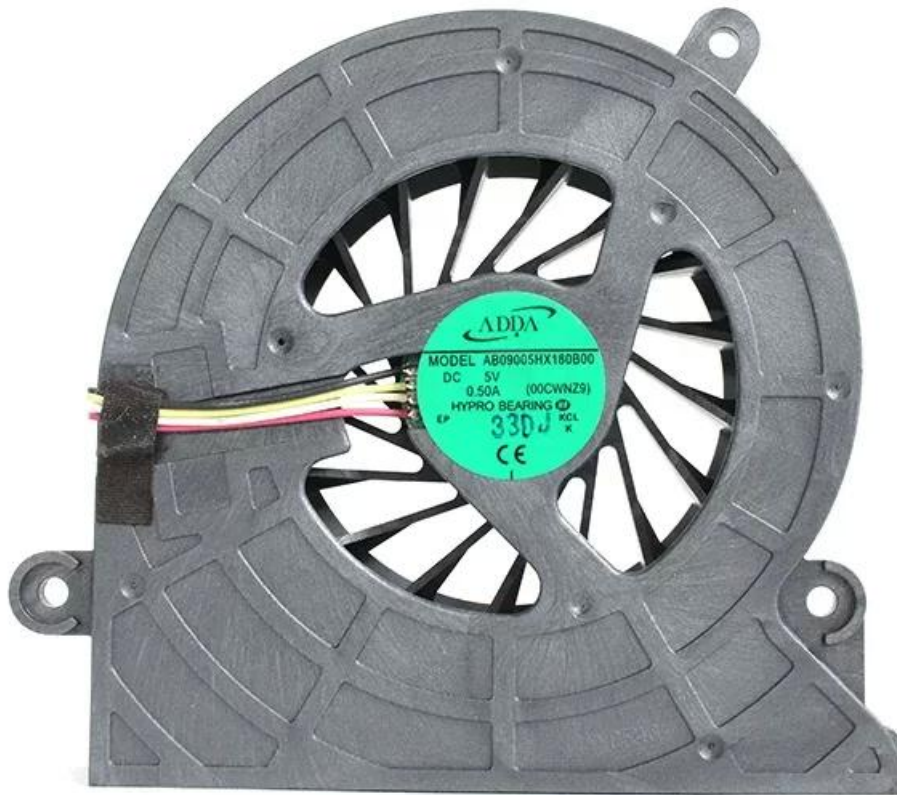
Max. Airflow: 19.2 CFM (32.6 m<sup>3</sup>/h)  
Max. Static Pressure: 144 Pa (0.58 inAq)  
Noise Level: 46.5 dB(A)  
Weight: 110 g  
Termination: 4 Wire Leads (Red: +, Black: -, Yellow: Tacho, Blue: PWM)  
Lead Wire Length: 200 mm (26 AWG)  
Bearing Type: Dual Ball Bearing  
Housing Material: Plastic (UL 94V-0 PBT)  
Impeller Material: Plastic (UL 94V-0 PBT)  
Number of Blades: Multi-blade (Turbine type)  
Direction of Rotation: Clockwise (viewed from air intake)  
Direction of Airflow: Radial (Exhaust at 90° to Intake)  
Degree of Protection: IP20  
Insulation Class: A  
Dielectric Strength: 500 VAC / 1 min / 5mA  
Insulation Resistance: 10M  $\Omega$  or over with a DC500V Megger  
Operating Temp. Range: -10 °C to +70 °C  
Storage Temp. Range: -40 °C to +70 °C  
Life Expectancy (L10) at 40 °C: 70,000 h  
Control Signal: PWM Speed Control (Pulse Width Modulation)  
Signal Output: Tacho signal (FG)  
Safety Protections: Auto-restart, Polarity protection, Locked-rotor protection  
Approvals: CE, UL, TUV, CSA

#### Application

The AB09005HX180B00 is primarily utilized as a specialized inverter cooling fan for slim-profile frequency drives and compact power modules, where air must be pulled from the surface and exhausted through a side vent. Its centrifugal turbine design is essential for these applications because it can maintain a high static pressure of 0.58 inAq, forcing air through the high-impedance internal channels common in miniaturized industrial hardware. The 4-wire configuration allows the inverter's control board to use PWM signals to dynamically adjust the fan speed based on real-time temperature, reducing energy consumption and noise during low-load periods. Beyond inverters, this 5V blower is deployed in high-density networking switches and medical diagnostic tools where the combination of compact 18mm thickness and active speed control is required for precision thermal regulation.

## Product Images

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