

AFB0812HD-A Delta 12VDC 80x80x20mm 2-Wire Axial Fan Datasheet



Brand: Delta

SKU: [966956980058](#)

Category: Axial & Centrifugal Fans

Price: **\$15.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/afb0812hd-a-delta-12vdc-80x80x20mm-2-wire-axial-fan>

Product Description

The Delta AFB0812HD-A is a precision-engineered DC Axial Fan designed for applications requiring a balance between high airflow and moderate static pressure. Utilizing an advanced DC brushless motor architecture, this unit minimizes thermal impedance while maintaining consistent rotational stability under varying load conditions. The construction features a robust thermoplastic housing reinforced for structural rigidity, ensuring durability in industrial environments. Its aerodynamic impeller design optimizes air intake and exhaust efficiency, significantly reducing turbulence-induced noise. Equipped with a high-grade dual ball bearing system, the AFB0812HD-A offers extended operational longevity and reliability, making it suitable for continuous duty cycles where thermal management is critical.

Model Number: AFB0812HD-A

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 5.0 - 13.8 VDC

Rated Current: 0.27 A

Input Power: 3.24 W

Rated Speed: 4000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 37.43 CFM (63.59 m³/h / 1.06 m³/min)

Max. Static Pressure: 4.78 mmH₂O (46.87 Pa / 0.188 inH₂O)

Dimensions: 80 x 80 x 20 mm

Weight: 80 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 34.0 dB-A

Housing Material: Plastic (UL 94V-0)

Impeller Material: Plastic (UL 94V-0)

Termination: 2-Wire Lead (Red +, Black -)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Ingress Protection: IP50 (Standard)

Insulation Resistance: >10 Megohm at 500 VDC

Dielectric Strength: 500 VAC for 1 Minute

Protection: Polarity Protection, Impedance Protected

The AFB0812HD-A is widely utilized in thermal management solutions for compact electronics and industrial machinery. Common deployment scenarios include cooling power supply units, server rack ventilation, and heat dissipation in telecommunications equipment. The AFB0812HD-A is also frequently integrated into medical devices and CNC control panels where reliable, continuous airflow is necessary to prevent component overheating and ensure system stability.

Supplemental Images

