

AFB0812SH Delta 12VDC 80x80x25mm 0.51A Axial Fan Datasheet



Brand: Delta

SKU: [950402369202](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

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

Product Page: <https://www.equipspares.com/product/afb0812sh-delta-12vdc-80x80x25mm-0-51a-axial-fan>

Product Description

The Delta AFB0812SH is a high-performance DC Axial Fan engineered for critical thermal management applications requiring substantial airflow and static pressure. This unit utilizes a precision-wound DC brushless motor integrated with a robust dual ball bearing architecture, ensuring minimal friction and extended operational longevity under continuous load. The impeller and housing are constructed from reinforced thermoplastic PBT (UL94V-0), providing exceptional structural rigidity and resistance to thermal deformation. Designed with advanced aerodynamics, the blade geometry optimizes air intake to reduce turbulence while maintaining a high static pressure profile, effectively lowering thermal impedance in dense electronic enclosures. The AFB0812SH delivers reliable cooling performance, making it an ideal solution for systems demanding rigorous industrial standards.

Model Number: AFB0812SH

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Operating Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.51 A

Input Power: 6.12 W

Rated Speed: 4000 RPM

Max. Air Flow: 46.62 CFM (1.320 m³/min)

Max. Static Pressure: 6.78 mmH₂O (0.267 inH₂O / 66.5 Pa)

Noise Level: 40.0 dB-A

Bearing Type: Dual Ball Bearing

Dimensions: 80 x 80 x 25.4 mm

Weight: 80 g (2.82 oz)

Life Expectancy: 70,000 Hours at 40°C

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

Housing Material: Plastic (PBT) UL94V-0

Impeller Material: Plastic (PBT) UL94V-0

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Insulation Resistance: 10 Megohms min. at 500 VDC

Dielectric Strength: 500 VAC for 1 minute

Protection: Polarity Protection

The AFB0812SH is specifically calibrated for high-density electronic environments such as server chassis, network switches, and industrial automation control panels. Its high static pressure capabilities allow it to force air effectively through restrictive intake grills and heatsinks found in power supply units and telecommunications equipment. By maintaining consistent thermal envelopes, the AFB0812SH prevents component throttling in workstation PCs and rack-mounted hardware, ensuring system stability during peak processing operations.

Supplemental Images

