

AFB1212EJ-01HGU Delta 12VDC 120x120x25mm PWM Axial Fan Datasheet



Brand: Delta

SKU: [AFB1212EJ-01HGU](#)

Category: Industrial Fans

Price: **\$18.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/afb1212ej-01hgu-delta-12vdc-120x120x25mm-pwm-axial-fan>

Product Description

The Delta AFB1212EJ-01HGU is a high-performance DC Axial Fan engineered for demanding thermal management applications requiring substantial airflow and static pressure. This unit utilizes a robust DC motor architecture paired with a precision Double Ball Bearing system, ensuring minimized friction and extended operational longevity under continuous load. The aerodynamic design of the impeller optimizes air intake while reducing turbulence, effectively lowering thermal impedance within high-density enclosures. Featuring Pulse Width Modulation (PWM) speed control via a 4-wire interface, the fan allows for dynamic RPM adjustment based on real-time thermal requirements, balancing cooling efficiency with acoustic performance. Its structural rigidity and high-current specification make it suitable for critical industrial and server-grade environments.

Model Number: AFB1212EJ-01HGU

Brand: Delta Electronics

Product Type: DC Axial Fan

OEM Part Number: 0X176F

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 1.50 A

Input Power: 18.00 W

Rated Speed: 4200 RPM

Bearing Type: Double Ball Bearing

Max. Air Flow: 154.5 CFM (262.5 m³/h / 4.37 m³/min)

Max. Static Pressure: 14.50 mmH₂O (142.1 Pa / 0.57 inH₂O)

Dimensions: 120 x 120 x 25 mm

Weight: 256 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead with Connector

Wire Configuration: Red (+), Black (-), Yellow (Tach), Blue (PWM)

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Safety Certifications: UL, cUL, TUV, CE

The AFB1212EJ-01HGU is specifically designed for high-static pressure environments such as enterprise server racks, blade chassis, and telecommunications cabinets where overcoming system resistance is critical. Due to its high-velocity output, the AFB1212EJ-01HGU is also frequently integrated into industrial CNC machinery and precision medical instrumentation requiring rapid heat dissipation. Its PWM capability makes it ideal for dynamic cooling in workstation builds and custom electronic enclosures where variable speed control is necessary to manage thermal loads efficiently.

Supplemental Images

