

AD1212UB-F51 ADDA 12VDC 120x120x38mm Aluminum Frame Axial Fan Datasheet



Brand: ADDA

SKU: 988170665656

Category: Axial & Centrifugal Fans

Price: \$15.99

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Product Page:

<https://www.equipspares.com/product/ad1212ub-f51-adda-12vdc-120x120x38mm-aluminum-frame-axial-fan>

Product Description

The ADDA AD1212UB-F51 is a robust industrial axial fan designed for high-demand thermal management applications requiring superior durability. Engineered with a precision ball bearing system, this unit ensures reduced friction coefficients and extended operational longevity under continuous duty cycles. The chassis features a heavy-duty aluminum die-cast frame construction, providing exceptional structural rigidity and enhanced heat dissipation properties compared to standard thermoplastic housings. Operating at a rated 12VDC with a current draw of 0.70A, this model delivers optimized airflow dynamics while maintaining a stable thermal impedance profile. The aerodynamic impeller design maximizes static pressure capabilities, making it an ideal solution for environments requiring reliable cooling performance and mechanical resilience against vibration and thermal stress.

Model Number: AD1212UB-F51

Brand: ADDA

Product Type: DC Axial Fan

Frame Material: Aluminum Die-Cast

Blade Material: Thermoplastic PBT (UL94V-0)

Bearing Type: Ball Bearing

Rated Voltage: 12VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.70 A

Input Power: 8.40 W

Rated Speed: 3200 RPM

Max. Air Flow: 115.0 CFM (195.3 m³/h / 3.25 m³/min)

Max. Static Pressure: 9.20 mmH₂O (90.1 Pa / 0.36 inH₂O)

Dimensions: 120 x 120 x 38 mm

Weight: 320 g

Noise Level: 46.0 dB-A

Life Expectancy: 70,000 Hours at 40°C

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

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP20 (Standard)

Insulation Resistance: >10M Ohm at 500VDC

Dielectric Strength: 500VAC for 1 Minute

Safety Certifications: UL, cUL, TUV, CE

Protection: Impedance Protected, Reverse Polarity Protection

The AD1212UB-F51 is frequently integrated into industrial automation enclosures and telecommunications infrastructure where consistent airflow is critical for system stability. Its rugged aluminum frame makes the AD1212UB-F51 particularly effective in harsh environments such as CNC machinery control panels, server racks, and high-wattage power supply units, where mechanical stress and thermal density require a ruggedized cooling solution beyond the capabilities of standard plastic fans.

Supplemental Images

