



AFB0612L-A Delta

Brand: Delta

SKU: AFB0612L-A

Category: DC Axial Fans

URL: <https://www.fansco.com/item/afb0612l-a-delta/>

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Product Description

AFB0612L-A Delta 60x60x25.40mm Ball 12VDC 16.81CFM(0.476m³/min)
0.113inchH₂O(2.86mmH₂O) 26.5dB(A) 0.96W 3100RPM 2 wire leads fan

The Delta AFB0612L-A is a two-phase, four-pole DC brushless axial fan designed for low-power cooling applications. With a rated voltage of 12 VDC and an extended operating voltage range of 4.0–13.8 VDC (start voltage ≤ 4.0 VDC at 25°C), it features 0.08 A nominal input current (0.12 A max.), 0.96 W nominal power consumption (1.44 W max.), and a reference rotational speed of 3100 RPM. Aerodynamically, it delivers a maximum airflow of 0.476 m³/min (minimum 0.428 m³/min, equivalent to 16.81 CFM/15.11 CFM) at zero static pressure, and a peak static pressure of 2.86 mmH₂O (minimum 2.32 mmH₂O, 0.113 inchH₂O/0.091 inchH₂O) at zero airflow, with an average acoustic noise level of 26.5 dB(A) (30.5 dB(A) max.).

Mechanically, the fan incorporates a UL94V-0 flame-retardant plastic frame and impeller, paired with dual ball bearings for extended durability, and weighs 80 g. It rotates clockwise with red(+)/black(-) UL1007-F-AWG#24 leads and an open-type housing. Electrical specifications include UL Class A insulation (≥ 10 M Ω insulation resistance at 500 VDC, ≤ 5 mA dielectric strength at 500 VAC/60 Hz for 1 min).

Environmentally, it operates within 10–70°C (storage: -40–75°C) and 5–90% RH, validated by reliability tests including 5 thermal cycles (-40°C to 80°C), 168-hour humidity exposure (65°C/90–98% RH), and 3.2 gRMS vibration (2 hours per X/Y/Z axis). Protective features include 96-hour locked-rotor fire resistance under rated voltage and polarity reversal protection.

Compliant with environmental regulations (free of PBBs, CFCs, and other ozone-depleting substances), it is manufactured in China, Thailand, or Taiwan. For parallel operation, an external ≥ 4.7 μ F capacitor is required to stabilize power input. Suitable for low-power thermal management in computer systems, telecommunications equipment, and industrial control modules, installation precautions include avoiding impeller mechanical stress or lead cable tension; performance re-evaluation is recommended after 6 months of storage.

Technical Specifications

Attribute	Value
Part Number	AFB0612L-A

Manufacturer	Delta Electronics
Fan Speed	3100 RPM
Dimensions	60x60x25.40 mm
Approval Agency	CE, CSA, UL, VDE
Operating Temperature	14 ~ 158°F (-10 ~ 70°C)
Features	Locked Rotor Protection
Series	AFB
Air Flow (m3)	0.476 m3/min
Termination	2 wire leads
Fan Type	DC
Noise Level	26.5 dB(A)
Power Rating	0.96 W
Static Pressure	0.113 inchH2O (2.86 mmH2O)
Air Flow	16.81 CFM
Voltage Rating	12 VDC
Bearing Type	Ball Bearing
Weight	0.176 lb (80.00 g)
Category	Axial
Current Rating	0.08 A
Material Frame	Plastic
Lifetime @ Temp	70000 Hrs @ 40°C





