

# AFC0812DD-5E82 Delta 12VDC 0.75A 80x80x20mm Axial Fan Datasheet



**Brand:** Delta

**SKU:** [1033816968307](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$14.99**

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Product Page:

<https://www.equipspares.com/product/afc0812dd-5e82-delta-12vdc-0-75a-80x80x20mm-axial-fan>

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## Product Description

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Delta AFC0812DD-5E82 is a 12VDC 80x80x20mm Axial Fan optimized for high-density thermal management in space-constrained enclosures. This DC brushless motor utilizes a dual ball bearing architecture to minimize mechanical friction and extend service life under continuous operation. The aerodynamic impeller design is engineered to overcome significant thermal impedance, delivering a robust 0.75A current draw and 9.0W power rating to maintain critical component temperatures. With its 4-wire PWM control interface, the fan provides precise speed modulation and tachometer feedback, ensuring efficient cooling cycles and reduced acoustic profiles in variable load environments. The structural rigidity of the UL94V-0 plastic housing ensures stability at high RPM, making it a reliable solution for industrial integration.

Model Number: AFC0812DD-5E82

Brand: Delta Electronics

Product Type: Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.75 A

Power: 9.0 W

Rated Speed: 5000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 58.45 CFM (1.655 m<sup>3</sup>/min)

Max. Static Pressure: 10.20 mmH<sub>2</sub>O (0.401 inH<sub>2</sub>O)

Dimensions: 80 x 80 x 20 mm

Weight: 90 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM Control / Tachometer Output

Noise Level: 48.5 dB(A)

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Termination: 4-Lead Wires

Operating Temperature: -10 to +60 °C

Storage Temperature: -40 to +70 °C

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Certifications: UL, CUL, TUV, CE

#### AFC0812DD-5E82 Applications

1. 1U/2U Rackmount Servers: The 20mm slim profile and high static pressure make it an ideal replacement fan for overcoming the high system impedance found in densely packed server chassis.
2. Industrial Power Supplies: Optimized for cooling high-wattage SMPS units where consistent airflow is required to prevent thermal throttling of power semiconductors.
3. Network Switches and Routers: The PWM speed control allows for dynamic cooling based on data traffic loads, providing a balance between thermal efficiency and acoustic performance in telecom environments.

## Supplemental Images

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