

# FFB0412UHN-CG39 Delta 12VDC 40x40x28mm PWM Axial Fan Datasheet



**Brand:** Delta

**SKU:** [1007489978381](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$7.99**

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Product Page:

<https://www.equipspares.com/product/ffb0412uhn-cg39-delta-12vdc-40x40x28mm-pwm-axial-fan>

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## Product Description

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The Delta FFB0412UHN-CG39 is a high-performance DC axial fan engineered for mission-critical thermal management in dense electronic enclosures. Utilizing advanced brushless DC motor technology and a robust dual ball bearing architecture, this unit delivers exceptional structural rigidity and operational longevity under continuous load. The aerodynamic impeller design is specifically optimized to overcome high system impedance, generating significant static pressure and airflow required for server racks and telecommunication equipment. Its integrated PWM control circuit allows for precise thermal regulation, balancing cooling efficiency with power consumption, while the tachometer output provides real-time speed monitoring for system health checks.

Model Number: FFB0412UHN-CG39

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Operating Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.81 A

Input Power: 9.72 W

Rated Speed: 17500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 24.03 CFM (40.82 m<sup>3</sup>/h / 0.68 m<sup>3</sup>/min)

Max. Static Pressure: 27.94 mmH<sub>2</sub>O (274.0 Pa / 1.10 inH<sub>2</sub>O)

Dimensions: 40 x 40 x 28 mm

Weight: 45 g

Noise Level: 58.5 dB-A

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Termination: 4-Wire Leads (Black -, Red +, Yellow Tach, Blue PWM)

Wire Length: 150 mm

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Life Expectancy: 70,000 Hours at 40°C

Ingress Protection: IP55 (Optional configuration)

Designed primarily for high-density server environments, the FFB0412UHN-CG39 excels in applications requiring forced air convection through restricted spaces. This unit is frequently deployed in 1U server racks, network switches, and industrial power supplies where thermal density is critical. The FFB0412UHN-CG39 is also a preferred choice for DIY cooling modifications on 3D printers or CNC controllers, providing robust airflow to dissipate heat from MOSFETs and stepper drivers efficiently.

## Supplemental Images

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