

FFB0412UHN-SP1U Delta 12VDC 40x40x28mm PWM Axial Fan Datasheet



Brand: Delta

SKU: [672005301152](#)

Category: Axial & Centrifugal Fans

Price: **\$11.99**

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Product Page:

<https://www.equipspares.com/product/ffb0412uhn-sp1u-delta-12vdc-40x40x28mm-pwm-axial-fan>

Product Description

The Delta FFB0412UHN-SP1U is a high-performance Axial Fan engineered for applications requiring substantial static pressure and airflow density within a compact footprint. Utilizing advanced DC motor technology and a robust Two Ball Bearing architecture, this unit ensures operational longevity and reduced friction under high-speed rotation. The impeller features an aerodynamic design optimized to overcome high thermal impedance in dense electronic enclosures. Constructed with industrial-grade thermoplastic, the frame offers superior structural rigidity and vibration damping. This specific model integrates Pulse Width Modulation (PWM) for precise speed regulation, making it an ideal solution for thermal management in mission-critical hardware environments.

Model Number: FFB0412UHN-SP1U

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.81 A

Power Consumption: 9.72 W

Rated Speed: 15000 RPM

Bearing Type: 2 Ball Bearing

Max. Air Flow: 24.62 CFM (0.697 m³/min)

Max. Static Pressure: 49.4 mmH₂O (484 Pa / 1.94 inH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 45 g

Noise Level: 58.5 dB-A

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Life Expectancy: 70,000 Hours at 40°C

Protection: Locked Rotor Protection, Polarity Protection

Designed primarily for high-density computing environments, the FFB0412UHN-SP1U excels in 1U server racks and telecommunication equipment where space is limited but cooling requirements are extreme. The FFB0412UHN-SP1U is frequently utilized in power supply units, RAID arrays, and industrial automation systems requiring forced air convection to dissipate heat from tightly packed components. Its high static pressure capabilities allow it to push air effectively through dense heatsinks and restricted airflow channels found in modern network appliances.

Supplemental Images

