

# PFC0912DE-DF51 Delta 12VDC 90x90x38mm PWM Axial Fan Datasheet



**Brand:** Delta

**SKU:** 1004545860490

**Category:** Axial & Centrifugal Fans

**Price:** **\$16.99**

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Product Page:

<https://www.equipspares.com/product/pfc0912de-df51-delta-12vdc-90x90x38mm-pwm-axial-fan>

## Product Description

The Delta PFC0912DE-DF51 is a high-performance Axial Fan engineered for mission-critical thermal management in high-density server environments. Utilizing advanced DC brushless motor technology and a robust dual ball bearing architecture, this unit ensures exceptional longevity and reduced thermal impedance under continuous load. The 90x90x38mm frame is constructed to maintain structural rigidity while the impeller design maximizes aerodynamic efficiency, delivering significant static pressure required to overcome system resistance in tightly packed chassis.

Model Number: PFC0912DE-DF51

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12V DC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 3.72 A

Power Consumption: 44.64 W

Rated Speed: 7000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 152.0 CFM (258.2 m<sup>3</sup>/h)

Max. Static Pressure: 28.5 mmH<sub>2</sub>O (279.5 Pa / 1.12 inH<sub>2</sub>O)

Dimensions: 90 x 90 x 38 mm

Weight: 250 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Ingress Protection: IP20

Noise Level: 66.5 dB-A

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Termination: 4-Wire Leads with Connector

Operating Temperature: -10°C to +60°C

Storage Temperature: -40°C to +70°C

Safety Certifications: UL, cUL, TUV, CE

Protection: Locked Rotor, Polarity Protection

The PFC0912DE-DF51 is specifically designed for high-static pressure applications such as enterprise server racks, blade servers, and telecommunications equipment where overcoming airflow resistance is paramount. Originally utilized in IBM server infrastructure, the PFC0912DE-DF51 excels in cooling high-TDP processors and dense storage arrays, ensuring system stability by rapidly evacuating heat from enclosed spaces.

## Supplemental Images

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