

PFR0812XHE-9K48 Delta 12VDC 80x80x38mm 4.90A Axial Fan Datasheet



Brand: Delta

SKU: [734224527303](#)

Category: Axial & Centrifugal Fans

Price: **\$17.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/pfr0812xhe-9k48-delta-12vdc-80x80x38mm-4-90a-axial-fan>

Product Description

The Delta PFR0812XHE-9K48 is a high-performance DC axial fan engineered for mission-critical thermal management in high-impedance environments. Utilizing advanced brushless DC motor technology and a precision dual ball bearing architecture, this unit delivers exceptional rotational stability at extreme speeds. The aerodynamic impeller design maximizes static pressure capabilities, ensuring effective airflow penetration through dense server chassis and heat sinks. With robust structural rigidity and optimized thermal impedance characteristics, the PFR0812XHE-9K48 is designed to sustain continuous operation under extreme electrical loads, providing reliable heat dissipation for industrial and computing applications requiring substantial air volume displacement and velocity.

Model Number: PFR0812XHE-9K48

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12V DC

Voltage Range: 8.0 - 13.2 VDC

Rated Current: 4.90 A

Power Input: 58.8 W

Rated Speed: 13000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 133.7 CFM (227.1 m³/h / 3.78 m³/min)

Max. Static Pressure: 72.6 mmH₂O (712 Pa / 2.86 inH₂O)

Dimensions: 80 x 80 x 38 mm

Weight: 250 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 71.5 dB-A

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Ingress Protection: IP Rating Dependent on Coating

Insulation Class: Class A

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Termination: 4-Wire Lead with Connector

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Mounting Orientation: Any

Protection: Locked Rotor Protection, Polarity Protection

Designed primarily for high-density server environments, the PFR0812XHE-9K48 excels in applications demanding extreme static pressure to overcome system resistance. Common deployments include 1U/2U server chassis, telecommunications equipment, and precision cooling for industrial electronics. Enthusiasts also utilize the PFR0812XHE-9K48 for custom cooling modifications on electric vehicles and motorcycles due to its immense airflow capabilities. Its robust construction ensures reliability in CNC machinery and high-wattage power supply units where thermal stability is paramount.

Supplemental Images

