

PFR0812UHE-CF48 Delta 12VDC 80x80x38mm PWM Axial Fan Datasheet



Brand: Delta

SKU: 762379708258

Category: Axial & Centrifugal Fans

Price: \$14.99

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Product Page:

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Product Description

The Delta PFR0812UHE-CF48 is a high-performance DC Axial Fan engineered for mission-critical thermal management in dense server environments and industrial chassis. Utilizing advanced brushless DC motor technology and a precision dual ball bearing architecture, this unit ensures exceptional structural rigidity and operational longevity under continuous high-speed rotation. The aerodynamic impeller design is optimized to minimize thermal impedance while delivering substantial airflow against high system resistance. Featuring a 4-wire PWM control interface, it allows for dynamic speed regulation to balance cooling performance with energy efficiency. The robust housing meets UL94V-0 flammability standards, making it suitable for industrial and telecommunication applications requiring reliable forced convection cooling.

Model Number: PFR0812UHE-CF48

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 8.0 - 13.2 VDC

Rated Current: 1.50 A

Power Consumption: 18.00 W

Rated Speed: 9000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 107.60 CFM (182.8 m³/h / 3.04 m³/min)

Max. Static Pressure: 41.27 mmH₂O (404.8 Pa / 1.625 inH₂O)

Dimensions: 80x80x38mm

Weight: 260 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 66.5 dB-A

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Termination: 4-Wire Lead

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP Rating Optional (Standard IP20)

Insulation Class: Class A

Protection Features: Locked Rotor Protection, Polarity Protection

The PFR0812UHE-CF48 is specifically designed for high-density computing environments such as 1U and 2U server racks where overcoming system backpressure is critical for component stability. Its high rotational speed makes the PFR0812UHE-CF48 ideal for cooling CPU heatsinks, redundant power supplies, and telecommunication base stations. Additionally, this model serves effectively in industrial automation equipment and CNC machinery requiring consistent airflow to prevent thermal throttling of sensitive electronic components.

Supplemental Images

