

PFB1248XHE-CA59 Delta 54VDC 1.89A 120x120x38mm Axial Fan Datasheet



Brand: Delta

SKU: 745925126525

Category: Axial & Centrifugal Fans

Price: \$28.99

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Product Description

The Delta PFB1248XHE-CA59 is a 54VDC 120x120x38mm Axial Fan optimized for high-density thermal management in environments with extreme system impedance. This DC axial fan features a robust aluminum frame for enhanced structural rigidity and superior heat dissipation, paired with a high-performance motor architecture designed for continuous operation. Utilizing advanced aerodynamic blade geometry, it minimizes thermal impedance while maintaining a rated current of 1.89A. The integrated 4-wire PWM control allows for precise speed modulation, ensuring efficient cooling for server racks and telecommunications equipment where high static pressure and reliable airflow are critical for maintaining component longevity.

Model Number: PFB1248XHE-CA59

Brand: Delta Electronics

Product Type: Axial Fan

Rated Voltage: 54 VDC

Voltage Range: 36.0 - 60.0 VDC

Rated Current: 1.89 A

Power: 102.06 W

Rated Speed: 5500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 252.85 CFM (7.16 m³/min)

Max. Static Pressure: 35.88 mmH₂O (351.8 Pa / 1.41 inH₂O)

Dimensions: 120 x 120 x 38 mm

Weight: 470 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM Control / Tachometer Output

Housing Material: Aluminum Alloy (Die-Cast)

Blade Material: Plastic (UL 94V-0)

Termination: 4-Lead Wires (66cm length)

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +75 °C

PFB1248XHE-CA59 Applications

1. High-Density Server Enclosures: The high static pressure and 54VDC rail compatibility make it an ideal replacement fan for overcoming the airflow resistance of tightly packed 2U/4U rackmount chassis.
2. Telecom Base Stations: The aluminum frame provides the necessary structural integrity and thermal stability for ruggedized outdoor communication cabinets.
3. New Energy Vehicle (NEV) Thermal Management: Engineered for high-voltage DC systems, providing reliable cooling for power electronics and battery management systems in high-temperature environments.
4. Industrial VFD Cooling: Optimized for high-impedance environments where consistent airflow is required to prevent thermal throttling in variable frequency drives.

Supplemental Images

