

THB1248B-A Delta 48VDC 120x120x25mm PWM Control Axial Fan Datasheet



Brand: Delta

SKU: [1013056582522](#)

Category: Axial & Centrifugal Fans

Price: **\$9.99**

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Product Page:

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Product Description

The Delta THB1248B-A is a high-performance DC axial fan engineered for demanding industrial and server cooling applications requiring elevated static pressure and airflow. Operating at a nominal 48VDC, this 120mm cooling solution integrates a precision-wound DC brushless motor with a durable ball bearing system to ensure operational longevity and reduced thermal impedance under continuous loads. The unit features an optimized impeller design that maximizes aerodynamic efficiency while maintaining structural rigidity at high rotational speeds. Equipped with a 4-wire PWM interface, the THB1248B-A allows for precise speed modulation, enabling dynamic thermal management strategies that balance cooling performance with energy consumption in high-density electronic enclosures.

Model Number: THB1248B-A

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 48VDC

Voltage Range: 36.0 - 60.0 VDC

Rated Current: 0.75 A

Power: 36.0 W

Rated Speed: 4800 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 183.2 CFM (311.2 m³/h / 5.18 m³/min)

Max. Static Pressure: 18.5 mmH₂O (181.4 Pa / 0.73 inH₂O)

Dimensions: 120x120x25mm

Weight: 280 g

Life Expectancy: 70000 hrs at 40°C

Speed Control: PWM

Signal Output: Tachometer (Frequency Generator)

Ingress Protection: IP54

Insulation Class: Class A

Noise Level: 58.5 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Blade Material: PBT Plastic (UL94V-0)

Termination: 4-Wire Lead

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Mounting Orientation: Any

Motor Protection: Locked Rotor Protection; Reverse Polarity Protection

The THB1248B-A is specifically configured for high-impedance environments such as telecommunications cabinets, 48V DC server racks, and industrial automation power supplies where consistent airflow is critical. Its slim 25mm profile allows for integration into space-constrained chassis without sacrificing the pressure capabilities typically found in thicker fans. The THB1248B-A is also utilized in forced-air cooling for renewable energy inverters and high-capacity network switches, ensuring component stability during peak operational cycles.

Supplemental Images

