

# THB1548DE-DF66 Delta 48VDC 172x150x51mm PWM Axial Fan Datasheet



**Brand:** Delta

**SKU:** [894288426828](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$71.99**

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Product Page:

<https://www.equipspares.com/product/thb1548de-df66-delta-48vdc-172x150x51mm-pwm-axial-fan>

## Product Description

The Delta THB1548DE-DF66 is a high-static pressure DC Axial Fan engineered for industrial applications demanding superior thermal management and structural rigidity. Featuring advanced brushless DC motor technology and a precision-balanced impeller, this unit is optimized to deliver exceptional airflow against high system resistance. The robust die-cast aluminum frame acts as a heat sink while ensuring dimensional stability under high-speed operation. Equipped with a dual ball bearing architecture, the fan minimizes frictional coefficients and thermal impedance, significantly extending operational service life. This model integrates Pulse Width Modulation (PWM) for precise speed control, making it an ideal solution for dynamic cooling requirements in mission-critical environments.

Model Number: THB1548DE-DF66

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 48 VDC

Voltage Range: 36.0 - 60.0 VDC

Rated Current: 2.50 A

Input Power: 120.00 W

Rated Speed: 5500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 380.0 CFM (645.6 m<sup>3</sup>/h / 10.76 m<sup>3</sup>/min)

Max. Static Pressure: 47.0 mmH<sub>2</sub>O (461 Pa / 1.85 inH<sub>2</sub>O)

Dimensions: 172 x 150 x 51 mm

Weight: 780 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 72.0 dB-A

Frame Material: Die-Cast Aluminum

Impeller Material: Thermoplastic PBT (UL 94V-0)

Wire Configuration: 4-Wire

Control Interface: PWM Speed Control

Signal Output: Tachometer (Frequency Generator)

Operating Temperature: -10°C to +70°C

Ingress Protection: IP54 (Standard for Series)

Safety Certifications: UL, cUL, TUV, CE

Designed for high-impedance environments, the THB1548DE-DF66 is extensively used in enterprise-grade server racks and telecommunications enclosures where maintaining optimal operating temperatures is critical. The high static pressure capabilities of the THB1548DE-DF66 make it particularly suitable for cooling dense component arrays in CNC machinery, medical instrumentation, and power inverters. Its robust construction ensures reliability in harsh industrial settings, providing consistent airflow for heat exchangers and radiator cooling applications.

## Supplemental Images

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