

DZ17251B48XR Yimeng 48VDC 172x51mm Inverter Axial Fan Datasheet



SKU: [855396628001](#)

Category: Axial & Centrifugal Fans

Price: **\$35.99**

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Product Page:

<https://www.equipspares.com/product/dz17251b48xr-yimeng-48vdc-172x51mm-inverter-axial-fan>

Product Description

The Yimeng DZ17251B48XR is a high-capacity industrial axial fan engineered for applications demanding aggressive thermal management and substantial static pressure. Built upon a robust dual ball bearing architecture, this unit ensures exceptional rotational stability and longevity, even under continuous high-load operation. The 48VDC motor assembly draws a significant 3.5A current, translating to 168W of power that drives the impeller to achieve high rotational speeds, effectively overcoming high thermal impedance in densely packed electronic enclosures. Its aerodynamic design optimizes airflow efficiency while maintaining structural rigidity, making it a critical component for maintaining system reliability in harsh industrial environments.

Model Number: DZ17251B48XR

Brand: Yimeng

Product Type: Axial Fan

Rated Voltage: 48 VDC

Voltage Range: 36.0 - 56.0 VDC

Rated Current: 3.50 A

Power Consumption: 168.0 W

Rated Speed: 5800 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 385.0 CFM (654.1 m³/h / 10.9 m³/min)

Max. Static Pressure: 2.15 inH₂O (535.6 Pa / 54.6 mmH₂O)

Dimensions: 172 x 150 x 51 mm

Weight: 850 g

Frame Material: Aluminum Die-Cast

Impeller Material: Thermoplastic PBT (UL94V-0)

Life Expectancy: 70,000 Hours at 40°C

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +80°C

Noise Level: 68.5 dB(A)

Termination: Lead Wires (Red +, Black -)

Ingress Protection: IP54

Insulation Class: Class B

Motor Protection: Locked Rotor Protection, Reverse Polarity Protection

The DZ17251B48XR is specifically designed for critical cooling infrastructure within telecommunications base stations and high-performance server racks where space is limited but heat dissipation requirements are extreme. Its high-pressure output makes it ideal for forcing air through restrictive HEPA filters and dense heat sinks found in industrial power inverters and CNC machinery control cabinets. By integrating the DZ17251B48XR, facility managers ensure optimal operating temperatures for sensitive power electronics, preventing thermal throttling in automation systems and large-scale network switches.

Supplemental Images

