

DZ12038B12HF Huaxia Hengtai 12VDC 120x120x38mm Axial Fan Datasheet



SKU: [827626231254](#)

Category: Axial & Centrifugal Fans

Price: **\$11.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/dz12038b12hf-huaxia-hengtai-12vdc-120x120x38mm-axial-fan>

Product Description

The Huaxia Hengtai DZ12038B12HF is a high-performance axial fan engineered for demanding thermal management applications requiring substantial airflow and static pressure. Utilizing a robust DC motor architecture paired with a precision dual ball bearing system, this unit ensures operational longevity and structural rigidity under continuous high-speed rotation. The aerodynamic impeller design is optimized to minimize turbulence while maximizing air throughput, effectively reducing thermal impedance in densely packed electronic enclosures. Designed for industrial reliability, the DZ12038B12HF maintains stability across varying load conditions, making it a critical component for maintaining optimal operating temperatures in mission-critical hardware.

Model Number: DZ12038B12HF

Brand: Huaxia Hengtai

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 2.50 A

Power Consumption: 30.0 W

Rated Speed: 4500 RPM (Nominal)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 190.0 CFM (322.8 m³/h / 5.38 m³/min)

Max. Static Pressure: 22.5 mmH₂O (220.6 Pa / 0.88 inH₂O)

Dimensions: 120 x 120 x 38 mm

Weight: 320 g

Life Expectancy: 50,000 Hours at 40°C

Noise Level: 58.0 dBA

Housing Material: PBT Thermoplastic (UL94V-0)

Impeller Material: PBT Thermoplastic (UL94V-0)

Termination: 4-Wire Leads (PWM Control/Tachometer)

Ingress Protection: IP20

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Motor Protection: Locked Rotor Protection, Reverse Polarity Protection

Mounting Orientation: Any

The DZ12038B12HF is specifically designed for high-density computing environments such as server racks, blade servers, and telecommunications base stations where heat dissipation is critical. Its high static pressure capabilities make it ideal for forcing air through restrictive heatsinks and tightly packed chassis components. Additionally, the DZ12038B12HF is frequently utilized in industrial automation equipment, power supply cooling, and cryptocurrency mining rigs, ensuring that sensitive electronics remain within safe thermal limits during continuous operation.