

DA05020B12UR Huaxia Hengtai 12VDC 50x50x20mm Axial Fan Datasheet



SKU: [904066964741](#)

Category: Axial & Centrifugal Fans

Price: **\$9.99**

E-mail: sales@equipspares.com

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

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Product Description

The Huaxia Hengtai DA05020B12UR is a precision-engineered DC Axial Fan designed for critical thermal management in high-density electronic environments. Utilizing a robust Dual Ball Bearing architecture, this unit ensures minimized rotational friction and significantly extended operational longevity compared to standard sleeve bearing alternatives. The aerodynamic impeller design optimizes airflow dynamics while maintaining structural rigidity, effectively reducing thermal impedance in densely packed enclosures. Operating at a nominal 12VDC with a current draw of 0.20A, the motor integrates advanced commutation circuitry to deliver consistent torque and speed stability. Constructed with UL94V-0 rated thermoplastic, the frame and impeller offer superior resistance to heat and mechanical stress, making it an ideal solution for continuous duty cycles in industrial applications.

Model Number: DA05020B12UR

Brand: Huaxia Hengtai

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.20 A

Power Consumption: 2.40 W

Rated Speed: 5800 RPM \pm 10%

Bearing Type: Dual Ball Bearing

Max. Air Flow: 16.5 CFM (28.0 m³/h / 0.46 m³/min)

Max. Static Pressure: 5.8 mmH₂O (56.8 Pa / 0.23 inH₂O)

Dimensions: 50 x 50 x 20 mm

Weight: 35 g

Life Expectancy: 70,000 Hours @ 40°C

Noise Level: 32.0 dB(A)

Termination: 3-Wire (Lead Wire with Tachometer Signal)

Connector: Standard 3-Pin Motherboard / Industrial Header

Housing Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Insulation Resistance: >10M Ohm at 500VDC

Dielectric Strength: 500VAC for 1 Minute

Safety Certifications: CE, RoHS, UL

Direction of Rotation: Counter-clockwise (Viewed from front of fan blade)

Airflow Direction: Strut Side (Exhaust)

The DA05020B12UR is specifically calibrated for integration into compact electronic assemblies such as 1U server racks, network switches, and industrial automation control panels. Its compact 50mm footprint allows for seamless installation in space-constrained chassis where efficient heat extraction is critical for component longevity. Engineers frequently deploy the DA05020B12UR in medical diagnostic equipment and telecommunications power supplies, relying on its consistent airflow to prevent thermal throttling. Additionally, this model serves as a reliable replacement in legacy cooling systems for CNC machinery and projection units requiring active cooling with speed monitoring capabilities.

Supplemental Images

