

FD121238HB-E Y.S.TECH 12VDC 120x120x38mm PWM Axial Fan Datasheet



Brand: Y.S.TECH

SKU: [873959305903](#)

Category: Axial & Centrifugal Fans

Price: **\$11.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/fd121238hb-e-y-s-tech-12vdc-120x120x38mm-pwm-axial-fan>

Product Description

The Y.S.TECH FD121238HB-E is a high-performance axial fan engineered for mission-critical thermal management in dense electronic enclosures and server chassis. Utilizing a robust DC brushless motor architecture paired with a precision Dual Ball Bearing system, this unit ensures exceptional rotational stability and longevity under continuous high-load operations. The aerodynamic impeller design minimizes turbulence while maximizing volumetric efficiency, delivering significant airflow against high system impedance. With a substantial power rating of 54W, the FD121238HB-E features integrated PWM speed control, allowing for dynamic thermal regulation and optimized acoustic performance based on real-time cooling demands. Its structural rigidity and UL94V-0 rated thermoplastic housing make it suitable for harsh industrial environments requiring reliable heat dissipation and low thermal impedance.

Model Number: FD121238HB-E

Brand: Y.S.TECH (Yen Sun Technology)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 4.50 A

Power Consumption: 54.0 W

Rated Speed: 6000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 260.0 CFM (441.7 m³/h / 7.36 m³/min)

Max. Static Pressure: 35.2 mmH₂O (345.1 Pa / 1.38 inH₂O)

Dimensions: 120 x 120 x 38 mm

Weight: 395 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: 4-Wire PWM (Pulse Width Modulation)

Noise Level: 66.5 dBA

Housing Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Termination: 4-Wire Leads

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP55 (Optional)

Safety Certifications: UL, CUL, TUV, CE

Motor Protection: Polarity Protection, Locked Rotor Protection

Designed for high-density computing environments, the FD121238HB-E is frequently deployed in enterprise server racks and telecommunications base stations where backpressure is significant. The FD121238HB-E excels in cooling cryptocurrency mining rigs, ASIC miners, and industrial automation cabinets, ensuring components remain within safe thermal operating limits during peak processing loads.

Supplemental Images

