

BUC1012MD-00DHN Delta 12VDC 1.20A 100mm Blower Fan Datasheet



Brand: Delta

SKU: 966947063463

Category: Axial & Centrifugal Fans

Price: \$17.99

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Product Page:

<https://www.equipspares.com/product/buc1012md-00dhn-delta-12vdc-1-20a-100mm-blower-fan>

Product Description

The Delta BUC1012MD-00DHN is a high-efficiency DC centrifugal blower engineered for precision thermal management in space-constrained environments. Utilizing advanced brushless motor technology and a robust dual ball bearing architecture, this unit provides exceptional structural rigidity and low thermal impedance under continuous operation. Its aerodynamic impeller design is optimized to overcome high system impedance, delivering concentrated airflow to critical components. The integration of a 4-wire interface allows for sophisticated pulse width modulation (PWM) speed control and tachometer feedback, ensuring the BUC1012MD-00DHN maintains optimal cooling efficiency while minimizing acoustic output across varying thermal loads.

Model Number: BUC1012MD-00DHN

Brand: Delta Electronics

Product Type: DC Centrifugal Blower

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 1.20A

Power: 14.4W

Rated Speed: 4500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 32.5 CFM (0.92 m³/min)

Max. Static Pressure: 42.8 mmH₂O (419.7 Pa)

Dimensions: 100mm x 100mm x 25mm

Weight: 160g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM Signal

Monitoring Output: Tachometer / Frequency Generator

Termination: 4-Wire Lead Wires

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Insulation Class: Class A

Noise Level: 56.5 dB(A)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Certifications: UL, CUL, TUV, CE

The Delta BUC1012MD-00DHN is specifically designed for integration into high-density computing systems, such as Lenovo All-in-One (AIO) PCs and compact workstations. Given its high static pressure capabilities, the BUC1012MD-00DHN is also ideal for cooling telecommunications equipment, medical diagnostic machinery, and industrial control cabinets where airflow must be forced through dense heat sinks or narrow internal channels. The reliability of the BUC1012MD-00DHN ensures long-term stability in 24/7 operational environments.

Supplemental Images

