

PL42B12HH-1 Power Logic 12VDC 40x40x20mm Axial Fan Datasheet



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Category: Axial & Centrifugal Fans

Price: **\$3.99**

E-mail: sales@equipspares.com

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

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Product Description

The Power Logic PL42B12HH-1 is a precision-engineered DC Axial Fan designed for high-density electronic environments requiring reliable thermal management. Utilizing advanced dual ball bearing architecture, this unit ensures minimal frictional resistance and extended operational longevity under continuous load. The aerodynamic impeller design optimizes airflow dynamics to reduce thermal impedance within compact enclosures such as server racks and network switches. Engineered with structural rigidity, the frame withstands vibrational stress while maintaining acoustic stability. This 12VDC cooling solution integrates a 3-wire interface for precise speed monitoring, ensuring optimal performance in critical industrial and telecommunications applications.

Model Number: PL42B12HH-1

Brand: Power Logic

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.18 A

Power Consumption: 2.16 W

Rated Speed: 7500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 9.50 CFM (16.14 m³/h / 0.27 m³/min)

Max. Static Pressure: 7.62 mmH₂O (74.72 Pa / 0.30 inH₂O)

Dimensions: 40 x 40 x 20 mm

Weight: 30 g

Life Expectancy: 70,000 Hours @ 40°C

Termination: 3-Wire Lead with 3-Pin Connector

Wire Length: 200 mm

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Speed Control: Tachometer Signal (FG)

Ingress Protection: IP40

The PL42B12HH-1 is specifically engineered for compact electronic assemblies where space is at a premium but thermal dissipation cannot be compromised. Common deployment scenarios include 1U server racks, network switches, and telecommunications routers where consistent airflow is mandatory for system stability. Additionally, the PL42B12HH-1 serves effectively in industrial automation equipment and medical devices, providing reliable cooling for power supply units and sensitive logic boards requiring continuous operation.

Supplemental Images

