

# SD5012PT-24H(HH) SINWAN 24VDC 0.06A 50x50x12mm Axial Fan Datasheet



**Brand:** Sinwan

**SKU:** [669542369306](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$14.99**

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Product Page:

<https://www.equipspares.com/product/sd5012pt-24hhh-sinwan-24vdc-0-06a-50x50x12mm-axial-fan>

## Product Description

The SINWAN SD5012PT-24H(HH) is a DC Axial Fan engineered for precision thermal management in space-constrained industrial environments. Utilizing advanced DC brushless motor technology, this unit minimizes thermal impedance while maximizing structural rigidity through its UL94V-0 reinforced thermoplastic housing. The aerodynamic impeller design is optimized for stable laminar flow, ensuring efficient heat dissipation in high-density electronic enclosures. Its robust bearing architecture is designed to withstand continuous operation cycles, providing a reliable cooling solution for critical infrastructure. This fan represents a balance of low power consumption and consistent volumetric airflow, making it an essential component for maintaining optimal operating temperatures in sensitive electronic systems.

Model Number: SD5012PT-24H(HH)

Brand: SINWAN

Product Type: DC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 20.4 - 27.6 VDC

Rated Current: 0.06A

Power: 1.44W

Rated Speed: 5000 RPM

Bearing Type: Precision Ball Bearing

Max. Air Flow: 12.5 CFM (21.2 m<sup>3</sup>/h / 0.35 m<sup>3</sup>/min)

Max. Static Pressure: 4.2 mmH<sub>2</sub>O (41.2 Pa / 0.16 inH<sub>2</sub>O)

Dimensions: 50x50x12mm

Weight: 25g

Life Expectancy: 50,000 Hours at 40°C

Noise Level: 32.0 dB(A)

Housing Material: Thermoplastic PBT, UL94V-0

Blade Material: Thermoplastic PBT, UL94V-0

Termination: 2-Lead Wires

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +80°C

Insulation Class: Class A

Protection Features: Polarity Protection, Locked Rotor Protection

Certifications: CE, TUV, UL

The SD5012PT-24H(HH) is specifically designed for high-reliability applications such as Schindler elevator inverters and industrial frequency converters. Due to its compact 50mm profile, the SD5012PT-24H(HH) is frequently integrated into server racks, medical diagnostic equipment, and telecommunications modules where space is at a premium. Its ability to maintain consistent airflow under back-pressure makes it ideal for cooling power supplies and CNC control cabinets, ensuring the longevity of sensitive semiconductor components in demanding industrial automation environments.

## Supplemental Images

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