

SD5012PT-24H SINWAN 24VDC 50x50x10mm Axial Fan Datasheet



Brand: Sinwan

SKU: [738516421365](#)

Category: Axial & Centrifugal Fans

Price: **\$23.99**

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Product Page: <https://www.equipspares.com/product/sd5012pt-24h-sinwan-24vdc-50x50x10mm-axial-fan>

Product Description

The SINWAN SD5012PT-24H is a precision-engineered DC axial fan designed for compact thermal management applications requiring reliable airflow in constrained spaces. This unit utilizes an advanced DC brushless motor architecture to deliver consistent rotational stability while minimizing electromagnetic interference. The frame and impeller are constructed to ensure structural rigidity and resistance to deformation under thermal stress, optimizing aerodynamic efficiency. Its bearing system is calibrated for longevity, reducing frictional heat and noise generation during continuous operation. The SD5012PT-24H is specifically developed to lower thermal impedance in sensitive electronic enclosures, ensuring critical components remain within safe operating temperature ranges through effective forced convection cooling.

Model Number: SD5012PT-24H

Brand: SINWAN

Product Type: DC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 12.0 - 27.6 VDC

Rated Current: 0.06 A

Power Consumption: 1.44 W

Dimensions: 50mm x 50mm x 10mm

Bearing Type: Ball Bearing

Rated Speed: 5800 RPM

Max. Air Flow: 12.5 CFM (21.2 m³/h)
Max. Static Pressure: 3.5 mmH₂O (34.3 Pa)
Noise Level: 28.0 dB(A)
Termination: 2-Wire Lead
Housing Material: PBT (UL94V-0)
Blade Material: PBT (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Life Expectancy: 50,000 Hours at 40°C
Weight: 22g
Motor Protection: Impedance Protected
Polarity Protection: Reverse Polarity Protected
Insulation Resistance: >10M Ohm at 500VDC
Dielectric Strength: 500VAC for 1 Minute

The SINWAN SD5012PT-24H is frequently deployed in high-density electronic environments where space is at a premium but airflow cannot be compromised. Common applications include compact server racks, network switches, and telecommunications equipment where the SD5012PT-24H provides essential spot cooling for chipsets and power supplies. Additionally, this model is suitable for industrial automation control panels and medical instrumentation, ensuring that sensitive circuitry is protected from heat accumulation. The reliability of the SD5012PT-24H makes it an ideal choice for 24/7 operation in critical infrastructure systems.

Supplemental Images

