

# KD2412PTB1-6A Sunon 24V 5.3W 120mm DC Axial Fan

**SKU:** 996532127249

**Price:** \$9.99

**Categories:** Fans

**Tags:** SUNON

**Product Link:**

<https://www.electspares.com/product/kd2412ptb1-6a-sunon-24v-5-3w-120mm-dc-axial-fan/>

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## Product Description

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The Sunon KD2412PTB1-6A is a high-performance DC Axial Fan with dimensions of 120 x 120 x 38 mm. Operating on 24 V DC with a rated power of 5.3 W, this fan features a robust 5-blade impeller design powered by a high-efficiency Brushless DC Motor. Engineered for industrial applications, its 38mm deep frame is optimized for high static pressure of 77 Pa (0.31 inH<sub>2</sub>O) and a powerful airflow of 183.5 m<sup>3</sup>/h. Equipped with a 3-wire interface for speed monitoring, it provides a reliable and long-lasting thermal solution for industrial controllers, power systems, and high-density enclosures.

KD2412PTB1-6A Fan Parameters

Model: KD2412PTB1-6A

Manufacturer: Sunon

Type: DC Axial Fan

Series: KDE Series

Dimensions: 120 x 120 x 38 mm

Nominal Voltage: 24 V DC

Operating Voltage Range: 16.0 V DC to 27.6 V DC

Starting Voltage: 16.0 V DC

Rated Current: 0.22 A

Rated Input Power: 5.3 W

Number of Blades: 5

Motor Design: Brushless DC Motor

Rated Speed: 3100 RPM

Max. Airflow: 183.5 m<sup>3</sup>/h (108.0 CFM)

Max. Static Pressure: 77 Pa (0.31 inH<sub>2</sub>O)

Noise Level: 42.0 dB(A)

Bearing Type: Dual Ball Bearing

Insulation Class: Class A (105 °C)

Insulation Resistance: 10M ohm at 500 VDC between internal stator and lead wire (+)

Dielectric Strength: 500 VAC for one minute or 600 VAC for 2 seconds

Electrical Protection: Auto Restart, Polarity Protection, Locked Rotor Protection

Termination: 3 Wire Leads (UL1007, AWG 24)

Wire Definition: Red (+), Black (-), Yellow (Sensor/Tacho)

Sensor Type: Tachometer (Speed Sensor)

Frame Material: Thermoplastic PBT (UL 94V-0)

Impeller Material: Thermoplastic PBT (UL 94V-0)

Life Expectancy: 70,000 h (at 40 °C)

Operating Temperature Range: -10 °C to +70 °C

Storage Temperature Range: -40 °C to +70 °C

Mass: 326 g

Certifications: CE, TUV, UL/cUL, RoHS

#### Application

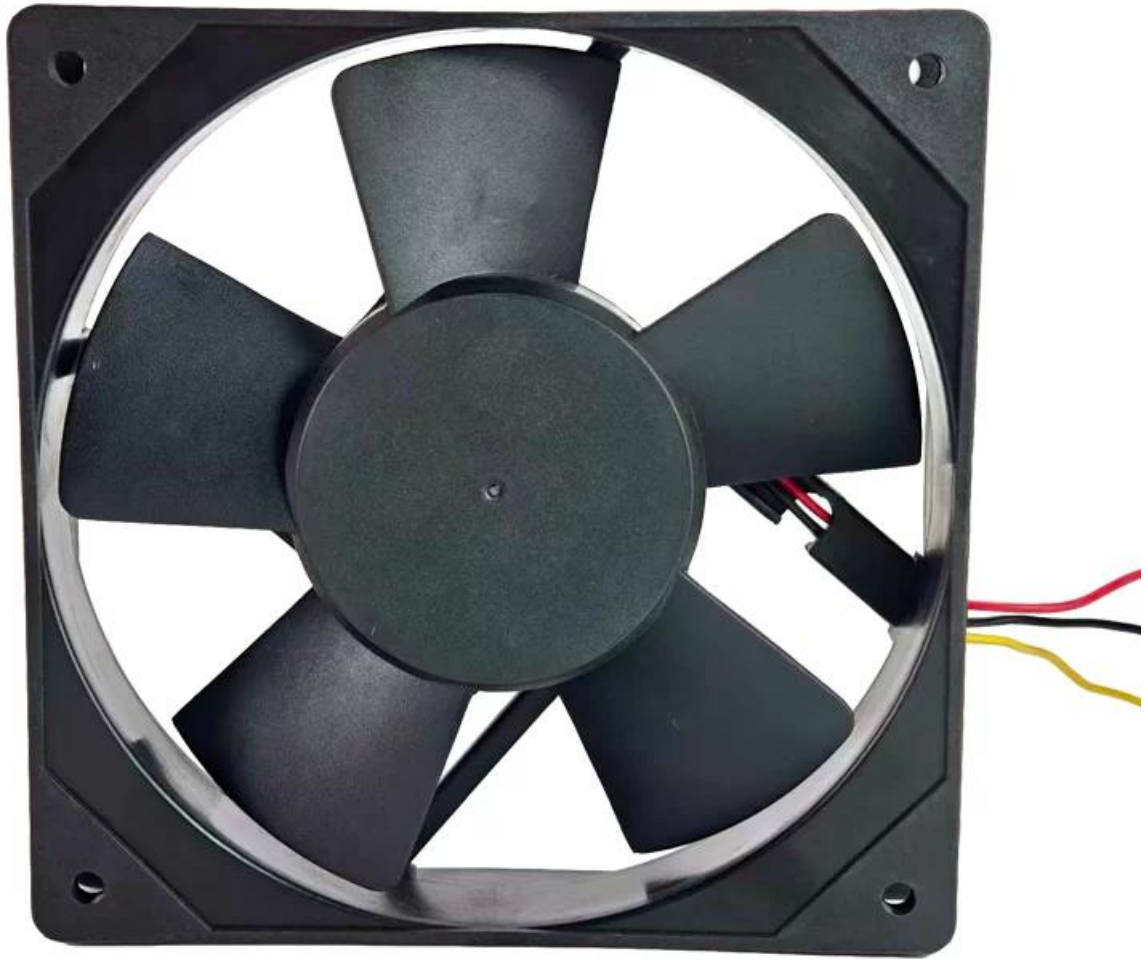
The Sunon KD2412PTB1-6A is specifically engineered for industrial-grade cooling applications that utilize 24V DC infrastructure. Its 38mm deep frame and 5-blade Brushless DC Motor design make it exceptionally effective at overcoming high impedance, making it ideal for cooling industrial control cabinets, CNC machinery, and high-wattage power inverters. The dual ball bearing system ensures a long service life and allows the fan to be mounted in any orientation, which is essential for medical equipment and telecommunications base stations. The 3-wire configuration provides essential speed feedback, ensuring system safety in automated machinery and laboratory ventilation systems.

## Product Images

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Scan for product details:

