

# 9WL0612P4S001 Sanyo Denki 12V IP68 60mm DC Axial Fan

**SKU:** 9WL0612P4S001

**Price:** \$97.50

**Categories:** Fans

**Tags:** Sanyo Denki

**Product Link:**

<https://www.electspares.com/product/9wl0612p4s001-sanyo-denki-12v-ip68-60mm-dc-axial-fan/>

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## Product Description

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The Sanyo Denki 9WL0612P4S001 is an ultra-high-performance industrial DC Axial Fan from the San Ace 60W series, measuring 60 x 60 x 25 mm. Engineered with a rugged die-cast aluminum frame and specialized motor encapsulation, this model achieves a superior IP68 rating for total protection against dust and continuous water immersion. Operating on a nominal 12 VDC, it reaches an extreme rated speed of 11000 RPM, delivering a massive maximum airflow of 49.4 CFM (1.4 m<sup>3</sup>/min or 84.0 m<sup>3</sup>/h). With a power consumption of 8.04 W (0.67 A), it is specifically designed to generate the high static pressure (1.204 inAq) required to move air through extremely dense cooling fins and protective filters in outdoor enclosures. This 4-wire version features a premium dual-ball bearing system and an optimized 9-blade impeller for maximum air displacement. The 9WL0612P4S001 provides mission-critical reliability for 12V industrial systems, telecommunications infrastructure, and renewable energy inverters operating in harsh environmental conditions.

9WL0612P4S001 Fan Parameters

Manufacturer: Sanyo Denki (San Ace)

Model Number: 9WL0612P4S001

Motor Design: Brushless DC Motor (Fully Encapsulated)

Type: DC Axial Fan (Extreme Speed / IP68 Series)

Dimensions: 60 x 60 x 25 mm

Impeller Size: 56 mm

Nominal Voltage: 12 VDC

Operating Voltage Range: 10.2 to 13.8 VDC

Speed: 11000 RPM

Power Input: 8.04 W

Rated Current: 0.67 A

Max. Airflow: 49.4 CFM (84.0 m<sup>3</sup>/h / 1.4 m<sup>3</sup>/min)

Max. Static Pressure: 300 Pa (1.204 inAq)

Noise Level: 53 dB(A)

Weight: 120 g

Termination: 4 Wire Leads (Red: +, Black: -, Yellow: Tacho/FG, Brown: PWM)

Lead Wire Length: 300 mm (24 AWG)

Bearing Type: Dual Ball Bearing

Housing Material: Die-cast Aluminum (Black Coating)

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

Number of Blades: 9

Direction of Rotation: Clockwise (viewed toward rotor)

Direction of Airflow: Struts Side Out (Exhaust)

Degree of Protection: IP68 (Dust-tight, Waterproof under pressure)

Insulation Class: A

Dielectric Strength: 500 VAC / 1 min

Insulation Resistance: 10M  $\Omega$  or over with a DC500V Megger

Operating Temp. Range: -20 °C to +70 °C

Life Expectancy (L10) at 60 °C: 18,000 h

Control Signal: PWM Speed Control

Signal Output: Tacho signal (FG)

Safety Protections: Auto-restart, Polarity protection, Locked-rotor protection

Approvals: CE, UL, TUV, CSA, RoHS

#### Application

The 9WL0612P4S001 is primarily utilized as an extreme-performance cooling solution for mission-critical outdoor infrastructure, such as 5G telecommunication base stations, high-power solar inverters, and industrial automated control cabinets. Its IP68-rated aluminum construction is essential for these applications, as it provides absolute protection against salt-spray, heavy rain, and dust ingress. The 11000 RPM extreme speed and 9-blade design enable the fan to generate 300 Pa of static pressure, ensuring that critical components like IGBT modules remain within safe thermal limits even when air resistance is exceptionally high. The 4-wire PWM interface allows for precise speed modulation, enabling the system to scale cooling performance (up to 49.4 CFM) dynamically based on real-time heat loads, which is vital for maintaining the operational stability of high-density power modules in harsh environments.

## Product Images

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