

# 109R0648G402 Sanyo Denki 48VDC 60x60x25mm Axial Fan Datasheet



**Brand:** Sanyo Denki

**SKU:** [988548382060](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$15.99**

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Product Page:

<https://www.equipspares.com/product/109r0648g402-sanyo-denki-48vdc-60x60x25mm-axial-fan>

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## Product Description

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The Sanyo Denki 109R0648G402 is a precision-engineered DC axial fan belonging to the renowned San Ace 60 series, designed to deliver reliable thermal management in demanding industrial environments. This unit features a robust dual ball bearing architecture, which significantly reduces rotational friction and enhances structural rigidity, ensuring a long operational lifespan even under continuous duty cycles. The 48VDC motor is optimized for efficiency, driving a dynamically balanced impeller that maximizes airflow while minimizing acoustic noise. The fan's housing is constructed to withstand thermal stress, providing low thermal impedance for sensitive electronic components. Its aerodynamic profile is specifically calibrated to maintain consistent static pressure, making it a superior choice for high-density equipment cooling.

Model Number: 109R0648G402

Brand: Sanyo Denki

Product Type: DC Axial Fan

Series: San Ace 60 (109R Type)

Rated Voltage: 48 VDC

Voltage Range: 40.8 - 55.2 VDC

Rated Current: 0.07 A

Input Power: 3.36 W

Rated Speed: 4600 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 23.0 CFM (39.0 m<sup>3</sup>/h / 0.65 m<sup>3</sup>/min)

Max. Static Pressure: 5.49 mmH<sub>2</sub>O (53.9 Pa / 0.21 inH<sub>2</sub>O)

Noise Level: 34 dB(A)

Dimensions: 60 x 60 x 25 mm

Weight: 100 g

Life Expectancy: 60,000 Hours (at 60°C)

Frame Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -30°C to +70°C

Termination: 2-Wire Lead (Red +, Black -)

Protection: Locked Rotor Protection, Reverse Polarity Protection

Dielectric Strength: 50/60 Hz, 500 VAC, 1 minute

Insulation Resistance: 10 MΩ or more at 500 VDC

The 109R0648G402 is specifically engineered for integration into telecommunications infrastructure and industrial power systems where 48VDC power rails are standard. Common applications include cooling telecom rectifiers, network switchgear, and server rack assemblies where reliability is paramount. The 109R0648G402 is also frequently utilized in CNC control cabinets and medical instrumentation, ensuring critical components remain within safe operating temperatures to prevent system failure.

## Supplemental Images

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