

# RL65-21/12/2HP ebmpapst 12V 19W 97mm DC Centrifugal Fan

**SKU:** RL65-21/12/2HP

**Price:** \$124.99

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/rl65-21-12-2hp-ebmpapst-12v-19w-97mm-dc-centrifugal-fan/>

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## Product Description

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The ebmpapst RL65-21/12/2HP is a high-performance DC centrifugal blower engineered for precision cooling in compact, high-impedance environments. Operating on a nominal 12 VDC supply (10.8 - 12.6 VDC range), this unit features a 4-wire interface with a PWM control input for intelligent speed modulation, reaching a nominal speed of 4900 RPM at 19 W. Within its 97.0 x 94.0 x 33.0 mm plastic housing, the blower utilizes a ball bearing system to deliver an airflow of 61 m<sup>3</sup>/h (35.9 CFM) and a static pressure of 390 Pa. Designed for versatile installation, it supports any shaft mounting position and maintains a service life of up to 92500 h (IPC 9591), ensuring reliable operation in mission-critical hardware from -20 °C to 55 °C.

RL65-21/12/2HP Fan Parameters

Manufacturer: ebmpapst

Model Number: RL65-21/12/2HP

Part Number: 9592910009

Identification: VHS0065XUFBS

Type: DC Centrifugal Blower

Nominal Voltage: 12 VDC

Nominal Voltage Range: 10.8 - 12.6 VDC

Dimensions: 97.0 x 94.0 x 33.0 mm

Weight: 0.160 kg

[Electrical Data]

Nominal Speed: 4900 RPM

Power Consumption: 19 W

Current Draw: 1.6 A

Control Input: PWM (Pulse Width Modulation)

Termination: 4 leads (L = 310 mm)

Motor Protection: Electronic protection against reverse polarity and blocked rotor

Insulation Class: B

[Performance & Acoustics]

Max. Air Flow: 61 m<sup>3</sup>/h (35.9 CFM)

Max. Static Pressure: 390 Pa (1.57 inAq)

Direction of Rotation: Counterclockwise (viewed toward rotor)

Airflow Direction: Axial intake, radial discharge

Mounting Torque: Wire outlet corner: 60 Ncm; Remaining corners: 100 Ncm

Screw Size: ISO 4762 - M4 (degreased)

[Materials & Construction]

Housing Material: Plastic

Impeller Material: Plastic

Motor Bearing: Ball Bearing

Mounting Position: Any (Shaft horizontal or vertical)

[Reliability & Protection]

Min. Ambient Temperature: -20 °C

Max. Ambient Temperature: 55 °C

Min. Storage Temperature: -40 °C

Max. Storage Temperature: 80 °C

Life Expectancy (L10): 55000 h at 40 °C (37500 h at 55 °C)

Life Expectancy (IPC 9591): 92500 h at 40 °C

Standard Compliance: CE, EAC, UL, VDE, CSA

Application

The ebmpapst RL65-21/12/2HP centrifugal blower is specifically engineered for precision thermal management in high-density electronics where its compact 97.0 x 94.0 x 33.0 mm plastic housing and PWM-controlled 4900 RPM motor are required to deliver a critical 61 m<sup>3</sup>/h airflow, while its ball bearing system and 19 W power consumption ensure reliable 12 VDC operation and heat dissipation in mission-critical hardware environments from -20 °C to 55 °C.

## **Product Images**

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