

# PF80251V3-1000C-A99 Sunon 12V 80x80x25mm DC Axial Fan

**SKU:** PF80251V3-1000C-A99

**Price:** \$13.29

**Categories:** Fans

**Tags:** SUNON

**Product Link:**

<https://www.electspares.com/product/pf80251v3-1000c-a99-sunon-12v-80x80x25mm-dc-axial-fan/>

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## Product Description

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The Sunon PF80251V3-1000C-A99 is a high-velocity 80 mm DC axial fan with a nominal voltage of 12 VDC and dimensions of 80 x 80 x 25 mm, specifically engineered for intensive thermal management in high-density electronic systems. Operating at a power consumption of 2.40 W with a rated current of 0.2 A, this unit utilizes Sunon's proprietary VAPO bearing system to maintain mechanical stability and extended service life at high rotational speeds. With an increased performance profile of 4200 RPM, it delivers a robust airflow of 53 CFM and a significant static pressure of 0.3 inH<sub>2</sub>O, effectively overcoming internal system resistance. Constructed with UL 94V-0 flame-retardant plastic and weighing 91 g, the fan features a 2-wire interface with essential auto-restart and polarity protection, providing a powerful and reliable cooling solution for servers, networking hardware, and industrial power supplies at the end.

PF80251V3-1000C-A99 Fan Parameters

Model Number: PF80251V3-1000C-A99

Manufacturer: Sunon

Series: PF Series

Type: DC Axial Fan

Size: 80 mm

Dimensions: 80 x 80 x 25 mm

Weight: 91 g

Bearing Type: VAPO Bearing

Nominal Voltage: 12 VDC

Voltage Range: 6.0 - 13.8 VDC

Power Consumption: 2.40 W

Nominal Current: 0.2 A

Speed: 4200 RPM

Max. Air Flow: 62.23 CFM (105.7 m<sup>3</sup>/h / 1.76 m<sup>3</sup>/min)

Max. Static Pressure: 9.81 mmH<sub>2</sub>O (96.24 Pa / 0.39 inH<sub>2</sub>O)

Actual Air Flow: 53 CFM (90.0 m<sup>3</sup>/h)

Actual Static Pressure: 0.3 inH<sub>2</sub>O (7.62 mmH<sub>2</sub>O / 74.7 Pa)

Sound Pressure Level: 41.5 dB(A)

Motor Design: Brushless DC motor

Motor Protection: Auto-restart; Polarity protection

Technical Features: Soft start

Insulation Class: Class A

Electrical Hookup: 2-wire lead wires (Red: +, Black: -)

Number of Blades: 7

Direction of Rotation: Counter-clockwise, viewed toward rotor

Airflow Direction: Exhaust over struts

Impeller Material: Plastic (UL 94V-0)

Housing Material: Plastic (UL 94V-0)

Installation Position: Any

Degree of Protection: IP20

Operating Temperature: -10 - +70 °C

Service Life (L10 @ 40 °C): 70000 h

Standard Compliance: UL, TUV, CE

Approval Agency: UL, TUV, CUR

#### Application

The Sunon PF80251V3-1000C-A99 DC fan is primarily utilized in networking hubs, telecommunications power supplies, desktop computer cases, and industrial cooling modules.

## Product Images

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