

A1425S12S-2 Thermaltake 12VDC 140x140x25mm 0.7A Axial Fan Datasheet



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Category: Axial & Centrifugal Fans

Price: **\$11.99**

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Product Description

The Thermaltake A1425S12S-2 is a precision-engineered Axial Fan designed for high-static pressure applications requiring optimized thermal impedance management. Utilizing a specialized hydraulic bearing architecture, this unit ensures structural rigidity and reduced friction during operation, contributing to an extended service lifecycle. The aerodynamic blade curvature is calibrated to deliver consistent airflow while minimizing turbulence-induced noise across its variable speed range. Engineered with a proprietary 9-pin interface, it integrates seamlessly with specific control modules to regulate the 500-1500 RPM speed range via Pulse Width Modulation (PWM) signals, ensuring efficient heat dissipation in high-density electronic environments.

Model Number: A1425S12S-2

Brand: Thermaltake

Product Type: Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.7 A

Power: 8.4 W

Rated Speed: 500 - 1500 RPM

Bearing Type: Hydraulic Bearing

Max. Air Flow: 63.19 CFM (107.3 m³/h / 1.79 m³/min)

Max. Static Pressure: 1.53 mmH₂O (15.00 Pa / 0.06 inH₂O)

Dimensions: 140x140x25mm

Weight: 160g

Life Expectancy: 40,000 Hours @ 25°C

Interface: TT Special 9-Pin (Requires Controller)

Cable Length: 900mm

Speed Control: PWM via Controller

Noise Level: 27.2 dBA

Housing Material: PBT (UL94V-0)

Blade Material: PBT (UL94V-0)

Color: Black Frame, Black Blades

Mounting Orientation: Any

Operating Temperature: -10°C to +70°C

The A1425S12S-2 is specifically architected for advanced thermal management solutions, including liquid cooling radiators and high-performance chassis ventilation. Its high-static pressure profile makes it ideal for pushing air through restrictive fins in water-cooling loops or dense server rack filters. Integrators frequently deploy the A1425S12S-2 in custom workstation builds and gaming setups where precise speed regulation via the proprietary controller is required to balance thermal loads. The unit is also suitable for cabinet cooling where the 9-pin ecosystem is already established.

Supplemental Images

