

PLA08025S12HH-1-LV Power Logic 12VDC 80x80x25mm PWM Axial Fan Datasheet



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Category: Axial & Centrifugal Fans

Price: **\$12.99**

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Product Description

The Power Logic PLA08025S12HH-1-LV is a precision-engineered DC axial fan designed for rigorous thermal management in compact electronic enclosures. Utilizing a robust DC brushless motor architecture, this unit optimizes torque delivery while minimizing electromagnetic interference and power consumption. The aerodynamic impeller profile is calibrated to reduce turbulence-induced noise while maintaining high static pressure capabilities, essential for overcoming system resistance. Constructed with a durable thermoplastic frame and a specialized sleeve bearing system, it ensures consistent rotational stability and manages thermal impedance effectively. The integration of Pulse Width Modulation (PWM) allows for dynamic speed regulation, balancing cooling performance with energy efficiency in demanding operational environments.

Model Number: PLA08025S12HH-1-LV

Brand: Power Logic

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.35 A

Power Consumption: 4.20 W

Rated Speed: 4000 RPM

Bearing Type: Sleeve Bearing

Max. Air Flow: 48.0 CFM (81.5 m³/h / 1.36 m³/min)

Max. Static Pressure: 5.50 mmH₂O (53.9 Pa / 0.22 inH₂O)

Dimensions: 80x80x25mm

Noise Level: 39.0 dBA

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire / 4-Pin Connector

Housing Material: PBT (UL94V-0)

Blade Material: PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Mounting Orientation: Any

Motor Type: Brushless DC

Weight: 85 g

This cooling solution is widely utilized in high-density server racks and telecommunications equipment where reliable airflow is critical. The PLA08025S12HH-1-LV excels in dissipating heat from power supply units and industrial automation controllers, ensuring component longevity. Additionally, the PLA08025S12HH-1-LV is frequently integrated into network switches and medical instrumentation, providing the necessary thermal regulation for sensitive electronics.

Supplemental Images

