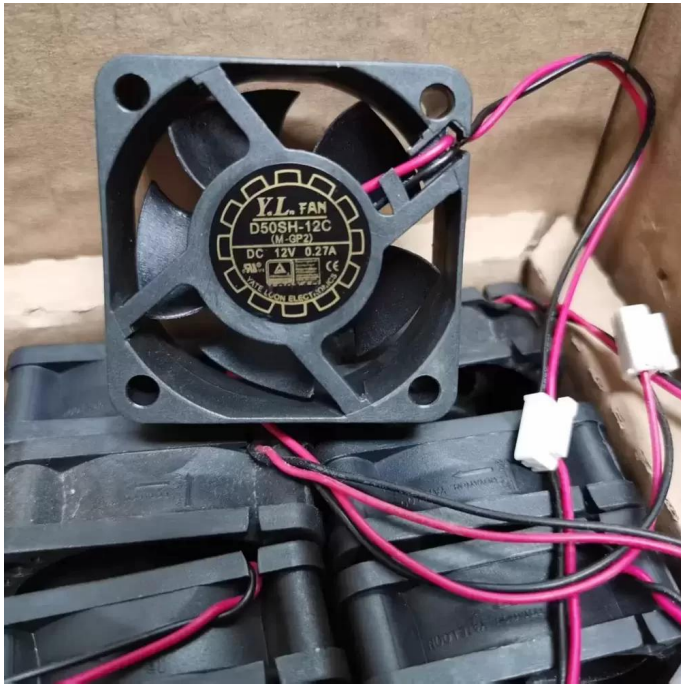


# D50SH-12C Y.L.FAN 12VDC 50x50x20mm Sleeve Axial Fan Datasheet



**Brand:** Y.L.FAN

**SKU:** [1002720408874](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$7.99**

---

**E-mail:** [sales@equipspares.com](mailto:sales@equipspares.com)

**Web:** <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/d50sh-12c-y-l-fan-12vdc-50x50x20mm-sleeve-axial-fan>

---

## Product Description

---

The Y.L.FAN D50SH-12C is a high-efficiency DC Axial Fan engineered for critical thermal management in compact electronic assemblies. Featuring a robust sleeve bearing system, this unit offers a cost-effective solution for continuous operation, balancing rotational stability with acoustic performance. The aerodynamic impeller design is optimized to maximize airflow through restricted spaces, significantly lowering the thermal impedance of heat sinks and internal components. Built with high-grade thermoplastic housing, the D50SH-12C ensures structural rigidity and resistance to deformation under elevated operating temperatures. This specific model utilizes a high-speed motor winding to deliver substantial static pressure, making it ideal for forced convection in power electronics and industrial instrumentation.

Model Number: D50SH-12C

Brand: Y.L.FAN (Yate Loon)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.27 A

Power: 3.24 W

Rated Speed: 4800 RPM (Estimated)

Bearing Type: Sleeve Bearing

Max. Air Flow: 16.5 CFM (28.0 m<sup>3</sup>/h / 0.46 m<sup>3</sup>/min)  
Max. Static Pressure: 4.8 mmH<sub>2</sub>O (47 Pa / 0.19 inH<sub>2</sub>O)  
Dimensions: 50 x 50 x 20 mm  
Weight: 25 g  
Noise Level: 31.0 dBA  
Termination: 2-Wire (Red/Black)  
Wire Length: 300 mm (Standard)  
Housing Material: PBT (UL94V-0)  
Blade Material: PBT (UL94V-0)  
Operating Temperature: -10°C to +70°C  
Storage Temperature: -40°C to +70°C  
Mounting Holes: 4 x 4.3mm  
Direction of Rotation: Counter-clockwise (Viewed from front)  
Airflow Direction: Struts side (Exhaust)

The D50SH-12C is widely utilized in power conversion equipment, specifically serving as a primary cooling component for industrial inverters and heavy-duty battery chargers. Its compact 50mm form factor allows for precise placement over heat-generating MOSFETs and transformers within dense circuit layouts. Beyond power electronics, the D50SH-12C is frequently deployed in small server racks, network switches, and proprietary instrumentation where reliable forced air circulation is required to maintain optimal operating temperatures and prolong equipment lifespan.

## Supplemental Images

---

