

GFC0812DW-SM00 Delta 12VDC 80x80x80mm Dual Motor Fan Datasheet



Brand: Delta

SKU: 735666494575

Category: Axial & Centrifugal Fans

Price: \$17.99

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Product Page:

<https://www.equipspares.com/product/gfc0812dw-sm00-delta-12vdc-80x80x80mm-dual-motor-fan>

Product Description

The Delta GFC0812DW-SM00 is a high-performance DC axial fan engineered for extreme thermal management applications requiring exceptional static pressure. Utilizing a sophisticated dual-motor counter-rotating architecture, this unit maximizes airflow throughput while overcoming high system impedance common in dense server racks and industrial machinery. The design incorporates precision ball bearings to ensure structural rigidity and operational longevity under continuous high-speed loads. Its aerodynamic blade geometry is optimized to reduce turbulence and enhance cooling efficiency. This 12VDC solution represents a robust thermal interface for critical hardware.

Model Number: GFC0812DW-SM00

Brand: Delta Electronics

Product Type: DC Axial Fan (Counter-Rotating)

Rated Voltage: 12VDC

Voltage Range: 8.0 - 14.0 VDC

Rated Current: 7.20 A

Power Input: 86.4 W

Rated Speed: 12500 / 11000 RPM (Inlet/Outlet)

Bearing Type: Precision Ball Bearing

Max. Air Flow: 260.5 CFM (442.6 m³/h / 7.37 m³/min)

Max. Static Pressure: 3.85 inH₂O (958 Pa / 97.7 mmH₂O)

Dimensions: 80mm x 80mm x 80mm

Weight: 450 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Ingress Protection: IP20

Noise Level: 78.5 dB(A)

Termination: 4-Wire / 8-Wire Lead

Mounting Orientation: Any

Protection: Locked Rotor Protection, Polarity Protection

The GFC0812DW-SM00 is specifically designed for environments requiring massive airflow against high static pressure, such as enterprise server racks and blade chassis systems. Its dual-motor configuration makes the GFC0812DW-SM00 ideal for automotive modifications, including electric supercharger applications, as well as cooling high-density telecommunications equipment and industrial CNC machinery where standard fans fail to penetrate thermal resistance.

Supplemental Images

