

DFPK0456B2G-Y015 AVC 12VDC 40x40x56mm Counter-Rotating Fan Datasheet



Brand: AVC

SKU: 682889599608

Category: Axial & Centrifugal Fans

Price: \$19.99

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Product Page:

<https://www.equipspares.com/product/dfpk0456b2g-y015-avc-12vdc-40x40x56mm-counter-rotating-fan>

Product Description

The AVC DFPK0456B2G-Y015 is a high-performance counter-rotating axial fan designed for extreme thermal management applications requiring substantial static pressure. Engineered with a dual-motor architecture within a compact 40x40x56mm frame, this unit utilizes advanced dual ball bearing technology to ensure operational longevity and structural rigidity under high-vibration conditions. The aerodynamic design features contra-rotating impellers that straighten airflow and maximize pressure generation, significantly reducing thermal impedance in dense electronic enclosures. Operating at 12VDC with a substantial current draw of 3.60A, it delivers exceptional volumetric efficiency, making it suitable for mission-critical cooling where standard axial fans fail to overcome system resistance.

Model Number: DFPK0456B2G-Y015

Brand: AVC (Asia Vital Components)

Product Type: Counter-Rotating Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 3.60 A

Power Input: 43.2 W

Dimensions: 40 x 40 x 56 mm

Bearing Type: Dual Ball Bearing

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead

Housing Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Mounting Orientation: Any

Ingress Protection: Standard

Application: Agricultural Drones (XAG Spreader), 1U Servers

The DFPK0456B2G-Y015 is specifically engineered for high-density environments such as agricultural drone spreaders (specifically XAG series) and 1U server racks where backpressure is a significant challenge. By utilizing a counter-rotating design, the DFPK0456B2G-Y015 effectively forces air through dense heatsinks and restricted ducts found in precision agriculture equipment and telecommunications hardware. This model ensures reliable thermal dissipation for flight controllers and high-load processors, preventing thermal throttling during intensive operations.

Supplemental Images

