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Noctua NF-A6X25 PWM Quiet Computer Cooling Fan 60mm

\$14.99

Product Images



Short Description

Featuring advanced aerodynamic design measures such as Flow Acceleration Channels and Noctua's AAO frame, the NF-A6x25 is a highly optimised, premium quality quiet fan in 60x25mm size. The PWM version sports Noctua's custom designed NE-FD1 IC for fully automatic speed control via 4-pin fan headers and comes with a Low-Noise-Adaptor to reduce the maximum speed during PWM control from 3000 to 2300rpm. Its superb running smoothness, SSO2 bearing and Noctua's trusted premium quality make it an elite choice for the highest demands.

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Features

Flow Acceleration Channels

The NF-A6x25 impeller features suction side Flow Acceleration Channels. By speeding up the airflow at the crucial outer blade regions, this measure reduces suction side flow separation and thus leads to better efficiency and lower vortex noise.

Reduced Motor Hub Size

Thanks to its streamlined, compact motor design, the NF-A6x25's motor hub is smaller than with conventional 6cm fans. This allows for more blade surface area and thus contributes to the NF-A6x25's superior airflow and pressure performance.

AAO Frame

Noctua's AAO (Advanced Acoustic Optimisation) frames feature integrated anti-vibration pads as well as Noctua's proprietary Stepped Inlet Design and Inner Surface Microstructures, both of which further refine the fan's performance/noise efficiency.

Stepped Inlet Design

Noctua's Stepped Inlet Design adds turbulence to the influx in order to facilitate the transition from laminar flow to turbulent flow, which reduces tonal intake noise, improves flow attachment and increases suction capacity, especially in space restricted environments.

Inner Surface Microstructures

With the tips of the fan blades ploughing through the boundary layer created by the Inner Surface Microstructures, flow separation from the suction side of the blades is significantly suppressed, which results

in reduced blade passing noise and improved airflow and pressure efficiency.

Integrated Anti-Vibration Pads

Integrated Anti-Vibration Pads made from extra-soft silicone minimise the transmission of minute vibrations while maintaining full compatibility with all standard mounting systems and fan clips used on heatsinks.

SSO2 Bearing

The NF-A6x25 features the further optimised second generation of Noctua's renowned, time-tested SSO bearing. With SSO2, the rear magnet is placed closer to the axis to provide even better stabilisation, precision and durability.

Custom designed PWM IC with SCD

Supporting fully automatic PWM speed control, the NF-A6x25 PWM uses Noctua's custom designed NE-FD1 PWM IC that integrates Smooth Commutation Drive (SCD) technology. By providing smoother torque impulses, SCD suppresses PWM switching noises and thus makes the fan quieter at low speeds.

Low-Noise Adaptor

The NF-A6x25 PWM is supplied with a Low-Noise Adaptor (L.N.A.) that reduces the maximum fan speed from 3000 to 2300rpm. The L.N.A can be used either to run the fan at a fixed speed of 2300rpm or to cap the maximum speed when using automatic PWM control.

Extensive cabling options

The fan's short 20cm primary cable minimises cable clutter in typical applications while the supplied 30cm extension provides extended reach when necessary. Both cables are fully sleeved and a 4-pin y-cable allows to connect a second NF-A6x25 PWM fan to the same PWM fan header for automatic control.

6 years manufacturer's warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-A6x25 features an MTBF of more than 150.000 hours rating and comes with a full 6 years manufacturer's warranty.

Specifications

Size	60x60x25 mm
Connector	4-pin PWM
Bearing	SSO2

Frame Technology	AAO (Advanced Acoustic Optimisation)
Rotational Speed (+/- 10%)	3000 RPM
Rotational Speed with L.N.A. (+/- 10%)	2300 RPM
Min. Rotational Speed (PWM, +/-20%)	550 RPM
Airflow	29,2 m³/h
Airflow with L.N.A.	
AITHOW WITH LINIA.	22,6 m³/h
Acoustical Noise	22,6 m³/h 19,3 dB(A)
Acoustical Noise	19,3 dB(A)

Max. Input Power	0,96 W
Max. Input Current	0,08 A
Voltage	12 V
MTBF	> 150.000 h
Scope of Delivery	 Low-Noise Adaptor (L.N.A.) 4-Pin Y-Cable 30cm Extension Cable 4 Vibration-Compensators 4 Fan Screws
Warranty	6 years

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Additional Information

Brand	Noctua
SKU	NF-A6X25-PWM
Weight	0.7000
Color	Brown
Fan Dimensions	60mm
Fan Width	25mm
Fan Connection	4-Pin PWM
Fan Voltage	12 VDC
Fan RPM	3000
Fan CFM	29
Fan Noise (dB)	19



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