

# NF-A12x25 LS-PWM

# Noctua NF-A12x25 LS-PWM Premium Fan



Having received more than 100 awards and recommendations from international hardware websites and magazines, Noctua's flagship model NF-A12x25 has established itself as a true deluxe choice when it comes to premium-quality quiet 120mm fans. Various state-of-the-art technologies and a record tight tip clearance of only 0.5mm, which is made possible by using the novel Sterrox® liquid-crystal polymer material, allow it to achieve superb results in all types of usage. Whether it's in low-impedance, airflow-oriented applications such as case cooling, or high-impedance, pressure-demanding scenarios such as on heatsinks and watercooling radiators, the NF-A12x25 is a proven winner. The 4-pin LS-PWM version is a low-speed, PWM-enabled variant that is ideal for semi-passive setups or ultra-low-noise applications that require near-silent acoustics and PWM based speed control. Topped off with exceptional running smoothness, Noctua's reference-class SSO2 bearing, a rich bundle of accessories and 6-year manufacturer's warranty, the NF-A12x25 is a premium-quality product through and through. Its superior efficiency, cutting-edge construction and pioneering materials make it an elite choice for the most discerning demands.

### Award-winning NF-A12x25 design

First introduced in 2018, the NF-A12x25 has taken the hearts of quiet cooling enthusiasts around the world by storm and reshaped the common perception of what 120mm fans can do. With more than 100 awards and recommendations from the international press, it's widely considered to be the best 120mm fan on the market.

### Next-generation performance

Noctua's 120mm fans such as the NF-F12 and NF-S12A are renowned as being among the best on the market and have received more than 400 awards and recommendations from the international press. With its further improved efficiency and novel, state-of-the-art engineering, the NF-A12x25 represents another step up in performance and manufacturing.

### Highly optimised P/Q curve for all applications

The NF-A12x25's sophisticated aerodynamic design allows for a pressure to airflow (P/Q) curve that is extremely strong in the critical mid-section. This means that the NF-A12x25 is a true jack-of-all-trades with excellent performance in both static pressure demanding and airflow demanding applications.

### Excellent on-application acoustics

While many fans produce unpleasant, high-pitched noises when installed in typical applications such as on heatsinks or radiators, the NF-A12x25 has been carefully fine-tuned for optimal on-application acoustics. It produces a smooth, pleasant frequency profile and surprisingly low sound pressure levels (SPL) when working against back pressure.

### Ultra-tight tip clearance

The NF-A12x25 has a record tight tip clearance (distance between the blade tips and the inside of the frame) of only 0.5mm. This highly ambitious design sets a new benchmark for 120mm fans and helps the NF-A12x25 to work more efficiently against back pressure, such as on heatsinks or radiators, by reducing leak flows through the gap between impeller and frame.

### Anti-vibration gasket for watercooling radiators

The NF-A12x25 includes a silicone gasket that can be used when installing the fan on watercooling radiators or other applications that benefit from a tighter seal with the fan. The gasket helps to damp minute vibrations and to reduce air loss between the fan and the radiator for optimal cooling performance.

### 6-year manufacturer's warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-A12x25 LS-PWM features an MTTF of more than 150,000 hours rating and comes with a full 6-year manufacturer's warranty.

### LOGISTIC DATA

Product name  
Noctua NF-A12x25 LS-PWM

EAN  
9010018100556

UPC  
841501110559

Packaging dimensions (HxWxD)  
150x178x350 mm

Weight incl. packaging  
364 g

Warranty  
6 years

Packaging unit  
36 pcs

Packaging dimensions / unit (HxWxD)  
393x380x370 mm

Weight incl. packaging / unit  
14.64 kg

### SCOPE OF DELIVERY

NF-A12x25 LS-PWM premium fan

Low-Noise Adaptor (L.N.A.)

4-pin PWM y-cable

30cm extension cable

4x anti-vibration mounts

4x fan screws

Anti-vibration gasket for watercooling radiators



### SPECIFICATIONS

Dimensions	120x120x25 mm	
Connector	4-pin	
Bearing	SSO2	
Blade geometry	A-Series with Flow Acceleration Channels	
Frame technology	AAO	
Max. input power / voltage	0.6 W / 12 V	
MTTF	> 150,000 h	

NF-A12x25 LS-PWM	w/o adaptor	with L.N.A.
Max. rotational speed (+/-10%)	1200 RPM	900 RPM
Max. airflow	55.7 m³/h	39.4 m³/h
Max. acoustical noise	12.1 dB(A)	7.6 dB(A)
Max. static pressure	0.82 mmH <sub>2</sub> O	0.41 mmH <sub>2</sub> O