



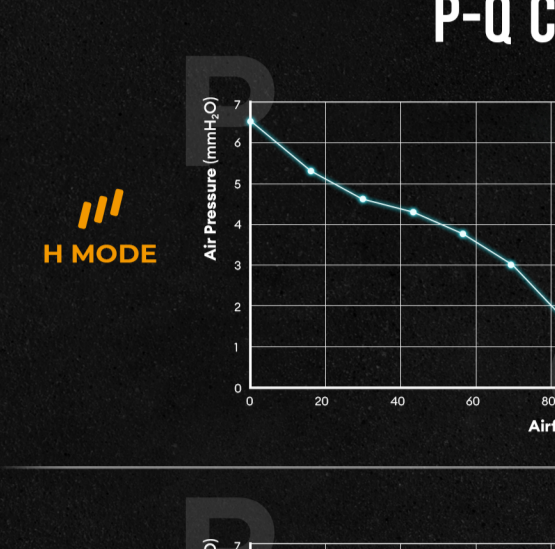
NOVA 120 PWM FAN

BLACK WHITE

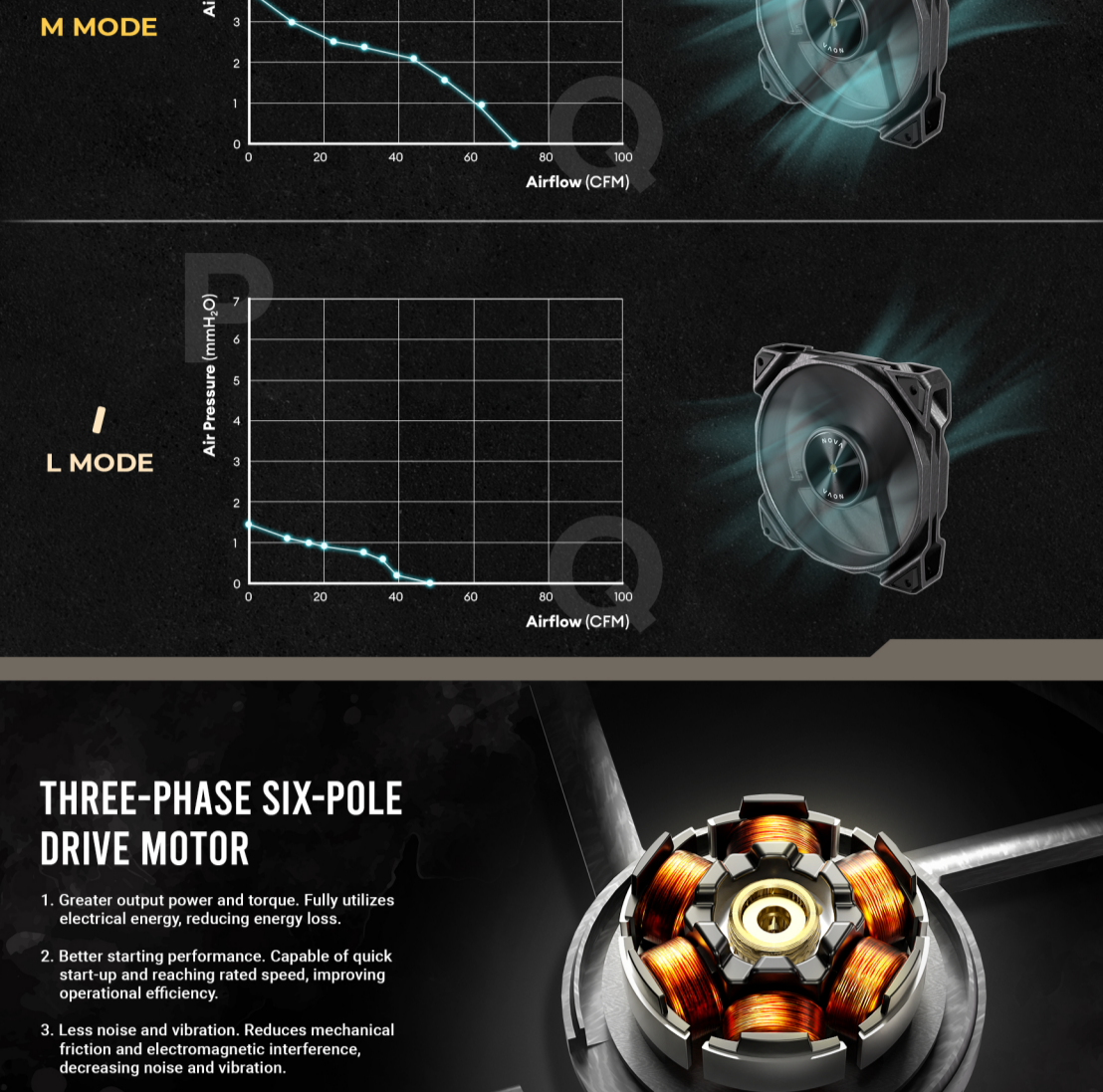
PWM 3-PHASE SPEED CONTROLLER

Included three-phase PWM speed controller allows you to switch modes according to different hardware environments and scenarios. Under all 3 modes Nova is able to stop operating when PWM signal is below 6%.

- H MODE** Extreme heat dissipation and the highest performance.
- M MODE** Balance between performance and noise.
- L MODE** Power saving, silent operation, reducing wear and tear, and longer life.



P-Q CURVE



THREE-PHASE SIX-POLE DRIVE MOTOR

- Greater output power and torque. Fully utilizes electrical energy, reducing energy loss.
- Better starting performance. Capable of quick start-up and reaching rated speed, improving operational efficiency.
- Less noise and vibration. Reduces mechanical friction and electromagnetic interference, decreasing noise and vibration.
- Precise PWM closed-loop design. Unaffected by air resistance, enhancing heat dissipation efficiency.



METAL SHAFT

- INDUSTRIAL-GRADE METAL STRUCTURE
- Enhances structural strength.
 - Improves reliability and durability.
 - Superior dynamic balance.

NEODYMIUM MAGNET

A strong neodymium magnet is placed at the bottom of the fan frame, perpendicular to the shaft. This magnetic structure effectively mitigates displacement due to centrifugal force during high-speed operation, thereby reducing fan vibration and ensuring more stable fan operation.



DUSTPROOF DESIGN

Dust-proof structure encloses the internal drive components, preventing entrance of dust or debris corroding electronic components inside, thus extending the lifespan of the fan.

DUSTPROOF STRUCTURE

EXTERIOR GEOMETRIC RIBS

Overall structural enhancement strengthens the fan frame rigidity and reduces resonance.



RECESSED DESIGN AT THE FOUR CORNERS

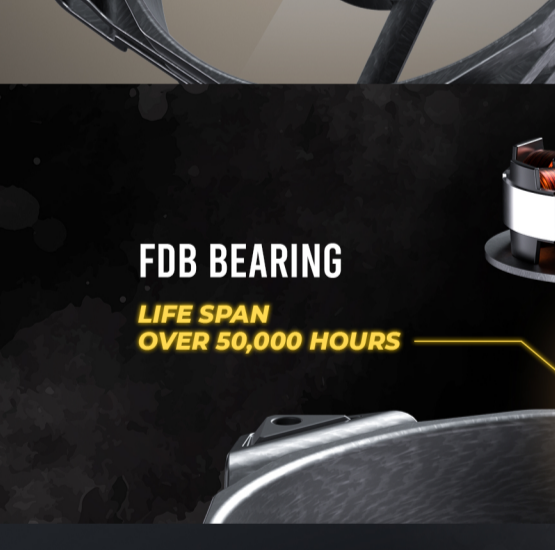
The contact area between the fan frame and the corner is only 7mm wide, reducing by 72%, which significantly reduces resonance and noise.



-72% CONTACT AREA

VIBRATION-ABSORBING & ANTI-NOISE PADS

8 anti-vibration rubber pads efficiently reduce vibration and noise.



HEXADECAGON FAN FRAME



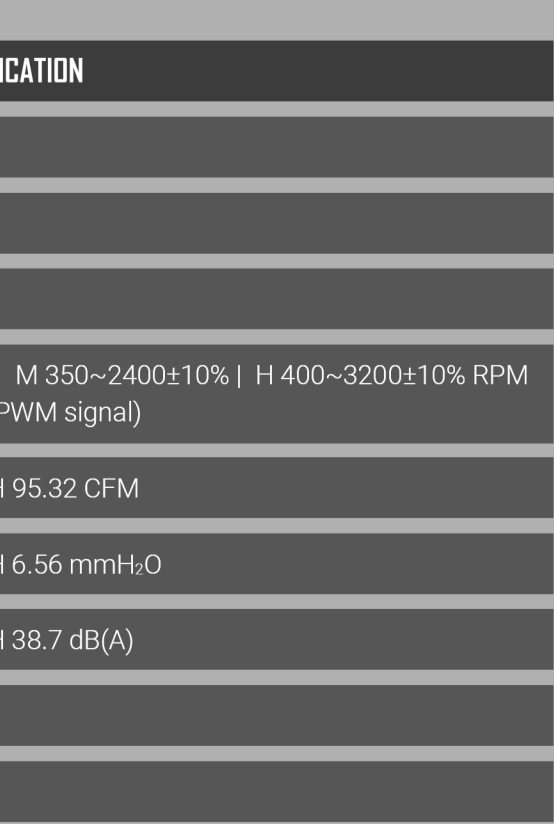
EXTREMELY MINIMAL FAN BLADE CLEARANCE

The clearance between fan frame and blades is minimized to 0.5 ± 0.1mm to increase the effective cooling area, avoids fan backflow and enhances air pressure.

9 CURVED BLADE FOR OPTIMIZED AERODYNAMICS

CFD (Computational Fluid Dynamics) numerical fan blade design optimizes geometry and improves fan efficiency and airflow.

- High Heat Dissipation
- Low Noise
- Low Power Consumption



INDUSTRIAL-GRADE LCP MATERIAL

Entire fan (blades + frame) is made of strong Liquid Crystal Polymer.

- Excellent heat dissipation performance.
- Low noise.
- High durability.



FDB BEARING

LIFE SPAN OVER 50,000 HOURS

PWM SHARING TECHNOLOGY

Control multiple fans all together via only one connection.

THE WAY TO DAISY CHAIN

PACKAGE

SPECIFICATION	
tFan Type	PWM Fan
Dimensions	120*120*25 mm
Bearing Type	FDB Bearing
Fan Speed	L 300~1500±10% M 350~2400±10% H 400~3200±10% RPM (0 RPM below 6% PWM signal)
Airflow	L 44 M 70.59 H 95.32 CFM
Air Pressure	L 1.48 M 3.72 H 6.56 mmH ₂ O
Fan Noise Level	L 21.5 M 30.8 H 38.7 dB(A)
Lifespan	50,000 / hrs 40°C
Connector	4-pin(PWM)
Rated Voltage	DC 12 V
Operation Voltage	DC 6.0 ~ 13.2 V
Rated Current	≤ 0.35 A
Warranty	5 years
UPC#	0-761345-40050-3 Nova 120 0-761345-40051-0 Nova 120_3PK 0-761345-40052-7 Nova 120 White