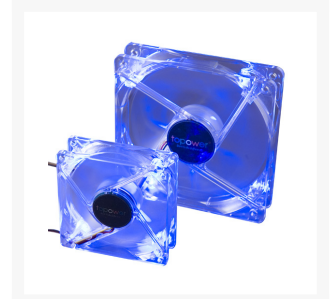




# Top Power (TOP-FAN-12NB) 120x120x25mm NANOTEK Bearing Fan - Blue LED

\$9.95

## Product Images



## Short Description

Product Details:

\*\*\* NEW \*\*\* Top Power (TOP-FAN-12NB) 120x120x25mm NANOTEK Bearing Fan - LED

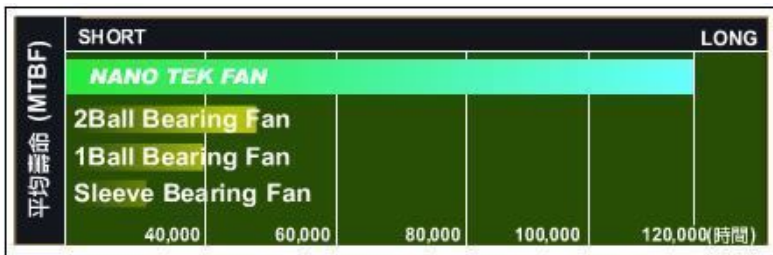
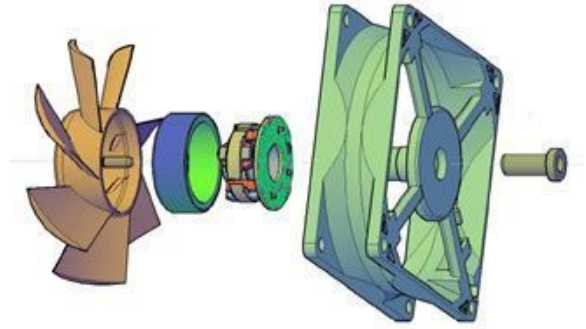
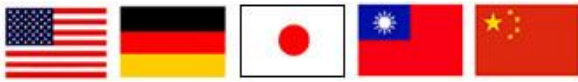
Features:

The Technology

The Nano Bearing is made of low friction plastic and dense soft metal molded into one piece. The surface of the bearing is coated with a nano layer substance to reduce friction and thus increase durability.

Multi-country Patent

Nanotechnology fan design certification of the design, by the United States, Germany, Japan, Taiwan and China formally approved by Patent.



Ultra High Lifetime

Stress-Tested in a Lab, the Mean Time Before Failure (MTBF) is longer than 120,000 hours, which leads competition's highest being at 50,000 hours of double-bearing fan.



Environmental Friendly and Low Noise

In line with the RoHS standard, less than 17dB, and maximum 43.8 CFM at RPM 1,000 120mm fan. At the same level of CFM, Nano fan has lower Rotation Per Minute and consumes less energy than that of competitor's.

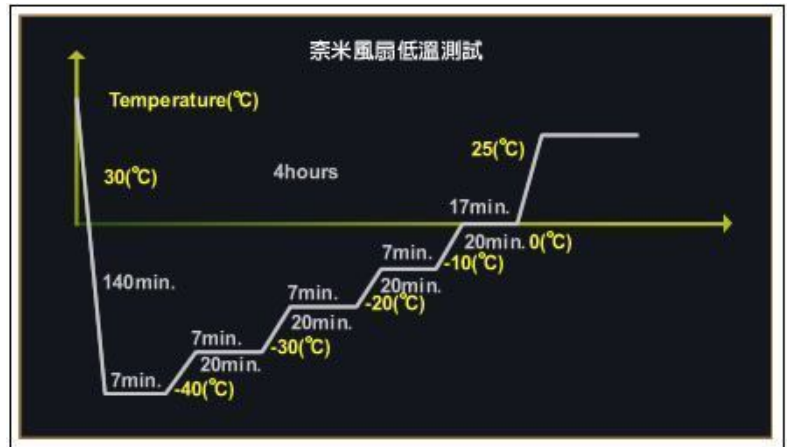
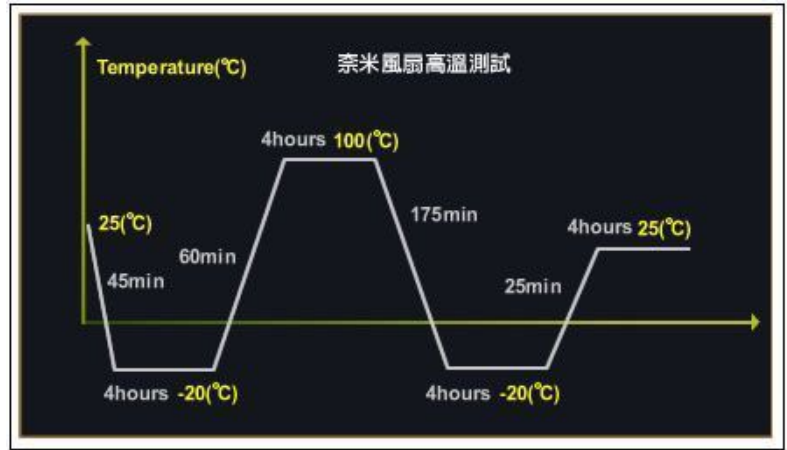
■ Lubricant Free. Operation in extreme temperature from -40 to 100 degree Celsius guaranteed!

In 60 degree Celsius operation environment, traditional ball-bearing and sleeve-bearing fans are likely fail due to thermal expansion contraction and lubricant dry out. In contrary to traditional bearings, Nano technology needs no lubricant. Nano fan passed rigorous test and operating 4 hours under 100 degree Celsius environments and no worries for lubricant leak or dry-out. The Nano bearing shaft has low expansion coefficient and runs smoothly in tough environment conditions.

Remark: -New production uses lubricant for easy assembling parts. Nano fan does not require lubricant. -Test setup compliant to MIL-STD-202

■ Waterproof, Dust-proof (IP 5 / 6)

Because there's no lubricant needed, Nano fan is both water and dust proof and compliant to EN60529: 1991-IP5X (dustproof test) and EN60529: 1991-IPX8 (water proof test). Nano fan can be dissembled for wash and making it always stays in best condition, yielding low noise and maximizes air flow. Even the traditional ball-bearing fan with dust and water treatment, it is likely to fail due to excessive friction between the dust and rust, and lubricant leakage.



### Specifications:

Impeller Material	PBT-Black
Frame Material	PBT-Black
Frame Size	120*120*25 mm
Bearing system	NanoTek Bearing
Water & Dust proof	IP 5/6
LED	Blue
PWM	Option
FG control ( Frequency Generator)	Yes
Auto-Restart	Yes
Starting voltage	< 3 Vdc
Lead Wires	UL 1007 AWG 24 or equivalent. Red:+, Black:-, Sensor: Yellow or White

Size	120x120x25mm
Weight	130g
Voltage	DV 12V
Current	0.2A
Wattage	2.4 W
Bearing System	Nano Touch Bearing
MTBF	120,000
Noise	14.1dBA
CFM	43.8CFM
Fan Speed	1000 RPM

## Description

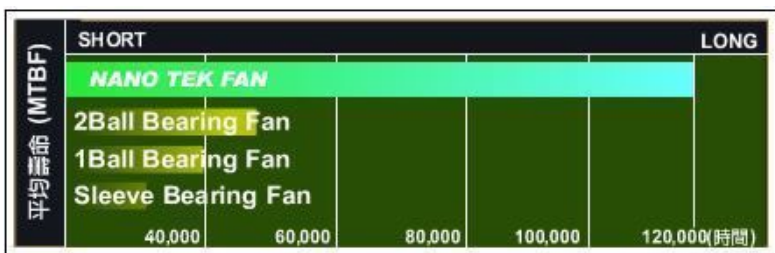
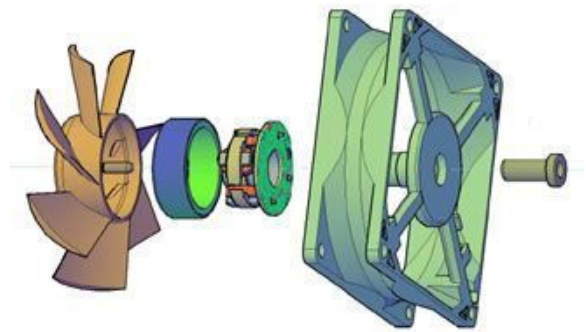
### Product Details:

\*\*\* NEW \*\*\* Top Power (TOP-FAN-12NB) 120x120x25mm NANOTEK Bearing Fan - LED

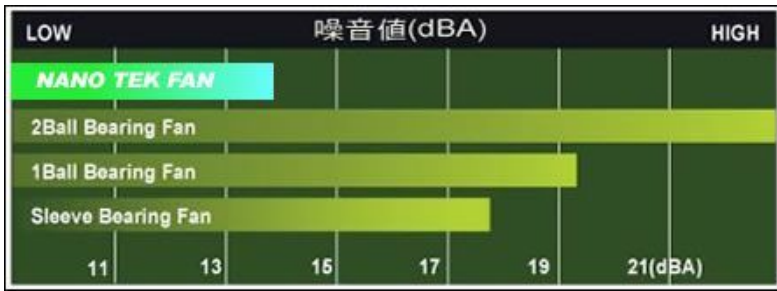
### Features:

**The Technology**  
The Nano Bearing is made of low friction plastic and dense soft metal molded into one piece. The surface of the bearing is coated with a nano layer substance to reduce friction and thus increase durability.

**Multi-country Patent**  
Nanotechnology fan design certification of the design, by the United States, Germany, Japan, Taiwan and China formally approved by Patent.



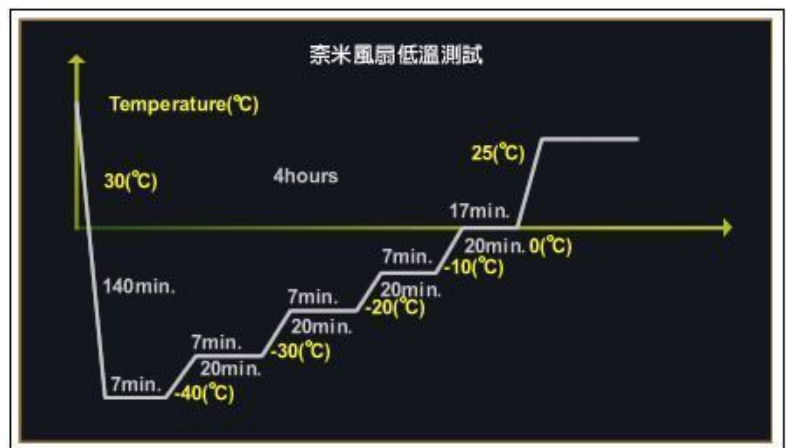
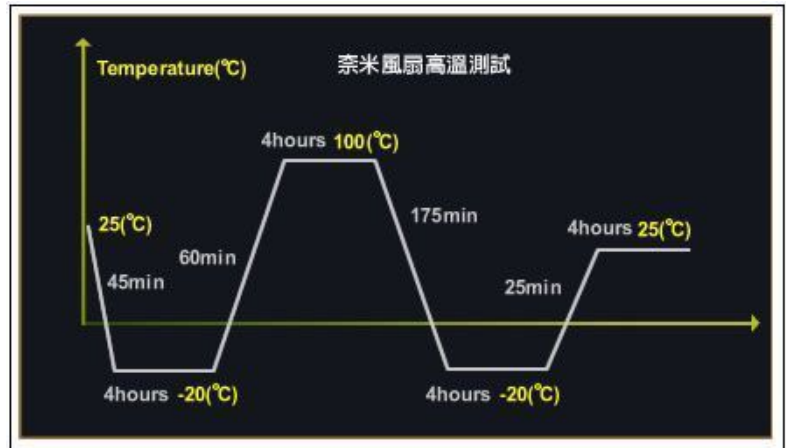
**Ultra High Lifetime**  
Stress-Tested in a Lab, the Mean Time Before Failure (MTBF) is longer than 120,000 hours, which leads competition's highest being at 50,000 hours of double-bearing fan.



**Environmental Friendly and Low Noise**  
 In line with the RoHS standard, less than 17dB, and maximum 43.8 CFM at RPM 1,000 120mm fan. At the same level of CFM, Nano fan has lower Rotation Per Minute and consumes less energy than that of competitor's.

**Lubricant Free.** Operation in extreme temperature from -40 to 100 degree Celsius guaranteed!  
 In 60 degree Celsius operation environment, traditional ball-bearing and sleeve-bearing fans are likely fail due to thermal expansion contraction and lubricant dry out. In contrary to traditional bearings, Nano technology needs no lubricant. Nano fan passed rigorous test and operating 4 hours under 100 degree Celsius environments and no worries for lubricant leak or dry-out. The Nano bearing shaft has low expansion coefficient and runs smoothly in tough environment conditions.  
 Remark: -New production uses lubricant for easy assembling parts. Nano fan does not require lubricant. -Test setup compliant to MIL-STD-202

**Waterproof, Dust-proof (IP 5 / 6)**  
 Because there's no lubricant needed, Nano fan is both water and dust proof and compliant to EN60529: 1991-IP5X (dustproof test) and EN60529: 1991-IPX8 (water proof test). Nano fan can be dissembled for wash and making it always stays in best condition, yielding low noise and maximizes air flow. Even the traditional ball-bearing fan with dust and water treatment, it is likely to fail due to excessive friction between the dust and rust, and lubricant leakage.



**Specifications:**

Impeller Material	PBT-Black
Frame Material	PBT-Black
Frame Size	120*120*25 mm
Bearing system	NanoTek Bearing
Water & Dust proof	IP 5/6
LED	Blue
PWM	Option

FG control ( Frequency Generator)	Yes
Auto-Restart	Yes
Starting voltage	< 3 Vdc
Lead Wires	UL 1007 AWG 24 or equivalent. Red:+, Black:-, Sensor: Yellow or White
Size	120x120x25mm
Weight	130g
Voltage	DV 12V
Current	0.2A
Wattage	2.4 W
Bearing System	Nano Touch Bearing
MTBF	120,000
Noise	14.1dBA
CFM	43.8CFM
Fan Speed	1000 RPM

### Additional Information

SKU	TOP-FAN-12NB
Weight	0.6000

