

# WIND POWER GENERATION

## Green New Energy

Green and environmentally friendly new energy

乃尔风电
Nai Er Feng Dian

# COMPANY PROFILE

Jiangsu Naier Wind Power Technology Development Co., Ltd., founded in 2009, is a high-tech enterprise with core independent intellectual property rights, located at No. 15, Gaoyuan Road, Xuelang Shuangxin Industrial Park, Wuxi Economic Development Zone, Jiangsu Province.

It mainly researches, develops and manufactures 100W-15KW small wind turbines, 20KW-500KW medium-sized wind turbines and vertical axis wind turbines, rare earth permanent magnet generators, magnetic levitation generators, wind turbine controllers and new energy system software development. It is a high-tech enterprise committed to the development and utilization of renewable energy such as wind energy and solar energy.

The company attaches great importance to product quality control and technological innovation, and has successively passed ISO9001 quality management system certification, environmental management system and occupational health management system certification, EU CE certification, integration management system certification, intellectual property management system certification and a number of national certificates; It has also won the title of Jiangsu Provincial Private Science and Technology Enterprise, Specialized and Special New Growth Enterprise, Jiangsu Provincial High tech Enterprise, and has entered the new technology and new product catalog of key promotion and application in Jiangsu Province; At present, it has more than 70 patents such as invention patents and utility models. The enterprise has been recognized as the Wuxi Enterprise Technology Center, the municipal engineering technology research center, the pilot project of implementing the standard for the integration management system of industrialization and industrialization in Jiangsu Province, and the Wuxi intelligent workshop.

The company now has many professionals, advanced production equipment and testing facilities, which can provide users with: design and installation of distributed wind and solar complementary grid connected and off grid power generation systems, equipment networking, system software development, design, installation, equipment operation and maintenance of road intelligent lighting and monitoring systems; A comprehensive management system integrating design, manufacturing, sales, installation, commissioning, agency operation and after-sales service has been formed.




# CATALOGUE

S-TYPE
S/S3——3/4
S4/S6——5/6

L-TYPE
L——12

LANTERN TYPE
SPIRAL TYPE
LANTERN TYPE——17
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GF-TYPE
GF——21/22

DK-TYPE
DK——25/26

M-TYPE
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M4/M5——11

Q-TYPE
Q/Q2——13/14
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H-TYPE
H TYPE/H530TYPE——19/20

G-TYPE
G——23/24

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## S 100W-400W

| Type | NE-100S | NE-200S | NE-300S | NE-400S |
|---|---|---|---|---|
| Rated Power | 100W | 200W | 300W | 400W |
| Max Power | 120W | 230W | 330W | 450W |
| Rated Voltage | 12/24V | 12/24V | 12/24V | 12/24V |
| Start-up Wind | 2.0m/s | 2.0m/s | 2.0m/s | 2.0m/s |
| Rated Wind | 10.5m/s | 11m/s | 11m/s | 11.5m/s |
| Survival Wind | 55m/s | 55m/s | 50m/s | 50m/s |
| Wheel diameter | 1.15m | 1.25m | 1.3m | 1.35m |

1.Low starting wind speed, high utilization rate of wind energy; small size, light weight, beautiful appearance, low running vibration. 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

| Blades | Generator type | Sheel material | Protection system | Working tep | Lubrication |
|---|---|---|---|---|---|
| 3/5/6 pcs Nylon fiber | NdFeB three-phase AC permanent magnet generator | Aluminum alloy | Electromagnetic / wind wheel sideways | -40℃～80℃ | Add grease |






## S3 100W-300W

| Type | NE-100S3 | NE-200S3 | NE-300S3 |
|---|---|---|---|
| Rated Power | 100W | 200W | 300W |
| Max Power | 110W | 210W | 310W |
| Rated Voltage | 12/24V | 12/24V | 12/24V |
| Start-up Wind | 2.0m/s | 2.0m/s | 2.0m/s |
| Rated Wind | 11.5m/s | 11.5m/s | 12m/s |
| Survival Wind | 55m/s | 55m/s | 50m/s |
| Wheel diameter | 1.1m | 1.2m | 1.3m |

1.Low starting wind speed, high utilization rate of wind energy; small size, light weight, beautiful appearance, low running vibration. 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

| Blades | Generator type | Sheel material | Protection system | Working tep | Lubrication |
|---|---|---|---|---|---|
| 3/5/6 pcs Nylon fiber | NdFeB three-phase AC permanent magnet generator | Aluminum alloy | Electromagnetic / wind wheel sideways | -40℃～80℃ | Add grease |




| S4 100W-400W | | | | |
|---|---|---|---|---|
| Type | NE-100S4 | NE-200S4 | NE-300S4 | NE-400S4 |
| Rated Power | 100W | 200W | 300W | 400W |
| Max Power | 120W | 230W | 330W | 450W |
| Rated Voltage | 12/24V | 12/24V | 12/24V | 12/24V |
| Start-up Wind | 2.0m/s | 2.0m/s | 2.0m/s | 2.0m/s |
| Rated Wind | 10.5m/s | 11.5m/s | 12m/s | 12m/s |
| Survival Wind | 55m/s | 55m/s | 50m/s | 50m/s |
| Wheel diameter | 1.15m | 1.25m | 1.35m | 1.4m |

1.Low starting wind speed, high utilization rate of wind energy; small size, light weight, beautiful appearance, low running vibration. 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

| Blades | Generator type | Sheel material | Protection system | Working tep | Lubrication |
|---|---|---|---|---|---|
| 3/5/6 pcs Nylon fiber | NdFeB three-phase AC permanent magnet generator | Aluminum alloy | Electromagnetic / wind wheel sideways | -40℃～80℃ | Add grease |






| S6 100W-400W | | | | |
|---|---|---|---|---|
| Type | NE-100S6 | NE-200S6 | NE-300S6 | NE-400S6 |
| Rated Power | 100W | 200W | 300W | 400W |
| Max Power | 120W | 230W | 330W | 450W |
| Rated Voltage | 12/24V | 12/24V | 12/24V | 12/24V |
| Start-up Wind | 2.0m/s | 2.0m/s | 2.0m/s | 2.0m/s |
| Rated Wind | 10.5m/s | 11.5m/s | 12m/s | 12m/s |
| Survival Wind | 55m/s | 55m/s | 50m/s | 50m/s |
| Wheel diameter | 1.15m | 1.25m | 1.35m | 1.4m |

1.Low starting wind speed, high utilization rate of wind energy; small size, light weight, beautiful appearance, low running vibration. 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

| Blades | Generator type | Sheel material | Protection system | Working tep | Lubrication |
|---|---|---|---|---|---|
| 3/5/6 pcs Nylon fiber | NdFeB three-phase AC permanent magnet generator | Aluminum alloy | Electromagnetic / wind wheel sideways | -40℃～80℃ | Add grease |




## M 300W-500W

| Type | NE-300M | NE-400M | NE-500M |
|---|---|---|---|
| Rated Power | 300W | 400W | 500W |
| Max Power | 320W | 410W | 510W |
| Rated Voltage | 12/24V | 12/24V | 12/24V |
| Start-up Wind | 2.5m/s | 2.5m/s | 2.5m/s |
| Rated Wind | 11m/s | 11.5m/s | 12m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s |
| Wheel diameter | 1.35m | 1.55m | 1.65m |

1.Low starting wind speed, high utilization rate of wind energy; small size, light weight, beautiful appearance, low running vibration. 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

| Blades | Generator type | Sheel material | Protection system | Working tep | Lubrication |
|---|---|---|---|---|---|
| 3/5 pcs Nylon fiber | NdFeB three-phase AC permanent magnet generator | Aluminum alloy | Electromagnetic / wind wheel sideways | -40℃～80℃ | Add grease |






## M2 400W-600W

| Type | NE-400M2 | NE-500M2 | NE-600M2 |
|---|---|---|---|
| Rated Power | 400W | 500W | 600W |
| Max Power | 420W | 530W | 610W |
| Rated Voltage | 12/24V | 12/24V | 12/24/48V |
| Start-up Wind | 2.5m/s | 2.5m/s | 2.5m/s |
| Rated Wind | 11m/s | 11.5m/s | 12m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s |
| Wheel diameter | 1.6m | 1.7m | 1.8m |

1.Low starting wind speed, high utilization rate of wind energy; small size, light weight, beautiful appearance, low running vibration. 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

| Blades | Generator type | Sheel material | Protection system | Working tep | Lubrication |
|---|---|---|---|---|---|
| 3/5 pcs Nylon fiber | NdFeB three-phase AC permanent magnet generator | Aluminum alloy | Electromagnetic / wind wheel sideways | -40℃～80℃ | Add grease |




| M3 300W-500W | | | |
|---|---|---|---|
| Type | NE-400M3 | NE-500M3 | NE-600M3 |
| Rated Power | 400W | 500W | 600W |
| Max Power | 430W | 530W | 650W |
| Rated Voltage | 12V/24V | 12V/24V | 12V/24V |
| Start-up Wind | 2.0m/s | 2.0m/s | 2.0m/s |
| Rated Wind | 10.5m/s | 11m/s | 11.5m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s |
| Wheel diameter | 1.7m | 1.7m | 1.7m |

1.Low starting wind speed, high utilization rate of wind energy; small size, light weight, beautiful appearance, low running vibration. 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

| Blades | Generator type | Sheel material | Protection system | Working tep | Lubrication |
|---|---|---|---|---|---|
| 3/5 pcs Nylon fiber | NdFeB three-phase AC permanent magnet generator | Aluminum alloy | Electromagnetic / wind wheel sideways | -40℃～80℃ | Add grease |






| M4 400W-600W | | |
|---|---|---|
| Type | NE-600M4 | NE-700M4 |
| Rated Power | 600W | 700W |
| Max Power | 620W | 730W |
| Rated Voltage | 12/24/48V | 12/24/48V |
| Start-up Wind | 2.5m/s | 2.5m/s |
| Rated Wind | 11m/s | 11.5m/s |
| Survival Wind | 45m/s | 45m/s |
| Wheel diameter | 1.8m | 1.8m |

1.Low starting wind speed, high utilization rate of wind energy; small size, light weight, beautiful appearance, low running vibration. 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

| Blades | Generator type | Sheel material | Protection system | Working tep | Lubrication |
|---|---|---|---|---|---|
| 3/5 pcs Nylon fiber | NdFeB three-phase AC permanent magnet generator | Aluminum alloy | Electromagnetic / wind wheel sideways | -40℃～80℃ | Add grease |




| M4 600W M5 800-2000W | | | | | |
|---|---|---|---|---|---|
| Type | NE-600M4 | NE-800M5 | NE-1000M6 | NE-1500M8 | NE-2kM10 |
| Rated Power | 600W | 800W | 1000W | 1500W | 2000W |
| Max Power | 610W | 830W | 1100W | 1550W | 2050W |
| Rated Voltage | 24/48V | 24/48V | 24/48V | 48/96V | 96/120V |
| Start-up Wind | 2.5m/s | 2.5m/s | 2.5m/s | 2.5m/s | 2.5m/s |
| Rated Wind | 11.5m/s | 11.5m/s | 11.5m/s | 12m/s | 12m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s | 45m/s | 45m/s |
| Wheel diameter | 1.8m | 1.95m | 2.05m | 2.2m | 2.45m |

1.Low starting wind speed, high utilization rate of wind energy; small size, light weight, beautiful appearance, low running vibration. 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

| Blades | Generator type | Sheel material | Protection system | Working tep | Lubrication |
|---|---|---|---|---|---|
| 3 pcs Nylon fiber | NdFeB three-phase AC permanent magnet generator | Aluminum alloy | Electromagnetic / wind wheel sideways | -40℃～80℃ | Add grease |

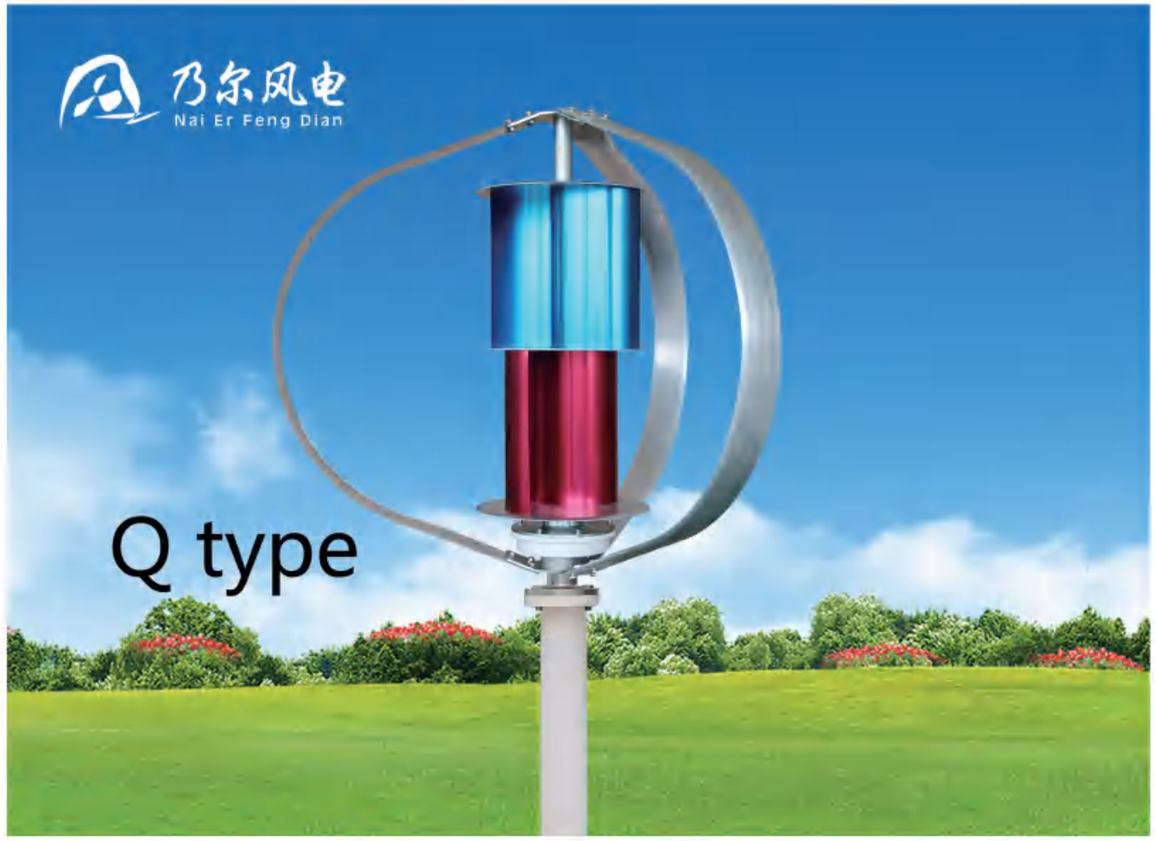





| L 1KW-3KW | | | | | | |
|---|---|---|---|---|---|---|
| Type | NE-1kL$_1$ | NE-1.5kL$_1$ | NE-2kL$_1$ | NE-2kL$_2$ | NE-2.5kL$_2$ | NE-3kL$_2$ |
| Rated Power | 1000W | 1500W | 2000W | 2000W | 2500W | 3000W |
| Max Power | 1200W | 1650W | 2100W | 2300W | 2600W | 3100W |
| Rated Voltage | 48/96V | 96/120V | 96/120V | 120/240V | 120/240V | 120/240V |
| Start-up Wind | 3.0m/s | 3.0m/s | 3.0m/s | 3.0m/s | 3.0m/s | 3.0m/s |
| Rated Wind | 11m/s | 11m/s | 11m/s | 10.5m/s | 11m/s | 11m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s | 45m/s | 45m/s | 45m/s |
| Wheel diameter | 2.55m | 2.85m | 3.15m | 3.45m | 3.7m | 3.95m |

1.Low starting wind speed, high utilization rate of wind energy; small size, light weight, beautiful appearance, low running vibration. 2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blades are precision injection-molded by new technology, with optimized aerodynamic shape design and structure design, three or five blades can be freely selected, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The casing is made of die-cast aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power conversion rate is high.

| Blades | Generator type | Protection control system | Working tep | Lubrication |
|---|---|---|---|---|
| 3pcs Reinforced FRP | NdFeB three-phase AC permanent magnet generator | Automatically adjust the windward angle /mechanical brake | -40℃～80℃ | Add grease |




## Q 100W-400W

| Type | NE-100Q1 | NE-200Q1 | NE-300Q4 | NE-400Q4 |
|---|---|---|---|---|
| Rated Power | 100W | 200W | 300W | 400W |
| Rated Voltage | 12/24V | 12/24V | 12/24V | 12/24V |
| Start-up Wind | 2m/s | 2m/s | 2.5m/s | 2.5m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s | 45m/s |
| Wheel diameter | 0.98m | 0.98m | 1.2m | 1.2m |
| Wheel height | 0.87m | 0.87m | 0.96m | 0.96m |
| Blades | 9 | 9 | 7 | 7 |
| Generator | NdFeB three-phase AC permanent magnet generator | | | |
| Protection | Electromagnetic | | | |
| Working tep | -40℃～80℃ | | | |

1. Low starting wind speed and high utilization rate of wind energy; small size, light weight, beautiful appearance and low operating vibration.
2. The rotary body adopts flange riveting, which is convenient for various installation requirements.
3. The wind rotor is connected by flange, which is convenient for various installation requirements.
3. The wind rotor blades are made of high-quality aluminum alloy plates, which are rolled and formed after laser cutting, with optimized aerodynamic shape design and structural design, and the peripheral high-speed blades increase the dynamic inertia, and the wind energy utilization coefficient is high.
4. The casing is made of die-casting aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The controller of the intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power generation conversion rate is high.






## Q2 100W-300W

| Type | NE-100Q2 | NE-200Q2 | NE-300Q2 |
|---|---|---|---|
| Rated Power | 100W | 200W | 300W |
| Rated Voltage | 12/24V | 12/24V | 12/24V |
| Start-up Wind | 2m/s | 2m/s | 2m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s |
| Wheel diameter | 0.98m | 0.98m | 0.98m |
| Wheel height | 0.87m | 0.87m | 0.87m |
| Blades | 9 | 13 | 13 |
| Generator | NdFeB three-phase AC permanent magnet generator | | |
| Protection | Electromagnetic | | |
| Working tep | -40℃～80℃ | | |

1. Low starting wind speed and high utilization rate of wind energy; small size, light weight, beautiful appearance and low operating vibration.
2. The rotary body adopts flange riveting, which is convenient for various installation requirements.
3. The wind rotor is connected by flange, which is convenient for various installation requirements.
3. The wind rotor blades are made of high-quality aluminum alloy plates, which are rolled and formed after laser cutting, with optimized aerodynamic shape design and structural design, and the peripheral high-speed blades increase the dynamic inertia, and the wind energy utilization coefficient is high.
4. The casing is made of die-casting aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The controller of the intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power generation conversion rate is high.




## Q4 300W-500W

| Model | NE-300Q4 | NE-400Q4 | NE-500Q4 |
|---|---|---|---|
| Rated power | 300W | 400W | 500W |
| Maximum power | 310W | 410W | 510W |
| Rated voltage | 12V/24V | 12V/24V | 24V |
| Start wind speed | 1.5m/s | 1.5m/s | 1.5m/s |
| Rated wind speed | 11m/s | 11m/s | 12m/s |
| Security wind speed | 45m/s | 45m/s | 45m/s |
| Rotor diameter | 1.4m | 1.4m | 1.4m |

1. Low starting wind speed and high utilization rate of wind energy; Small size, light weight, beautiful appearance, and low operating vibration.
2. The rotating body can be selected as a hoop or flange, which is convenient for various installation requirements.
3. The wind turbine blades adopt a new process of precision injection molding, combined with optimized aerodynamic shape design and structural design. Three or five blades are freely selected, with high wind energy utilization coefficient and increased annual power generation.
4. The casing is integrally formed with die-casting aluminum alloy, combined with customized bearing rotations, with stronger typhoon resistance and safe and reliable operation.
5. The generator adopts a patented permanent magnet rotor AC generator with a special stator design, effectively reducing the resistance torque of the generator and thus reducing the starting wind speed; At the same time, the wind turbine and generator have better matching characteristics, ensuring the reliability of unit operation.
6. The intelligent tracking technology of wind power generation efficiency is adopted to effectively regulate the current and voltage, and the power generation conversion rate is high.

| Blades | Blade material | Generator Type | Braking method | operation temperature |
|---|---|---|---|---|
| 4 pieces | Aluminum alloy | Rare earth permanent magnet generator<br>rare earth permanent magnet suspension generator | electromagnetism | -40℃～80℃ |






## Q10 1KW-5KW

| Model | NE-1000Q10 | NE-2000Q10 | NE-3000Q10 | NE-5000Q10 |
|---|---|---|---|---|
| Rated power | 1KW | 2kW | 3KW | 5KW |
| Maximum power | 1.1KW | 2.2W | 3.2KW | 5.5KW |
| Rated voltage | 48V/96V | 48V/96V | 120V/220V | 12V/24V |
| Start wind speed | 2.5m/s | 2.5m/s | 2.5m/s | 3m/s |
| Rated wind speed | 12m/s | 12m/s | 12.5m/s | 13m/s |
| Wind turbine height | 1.8m | 2.34m | 2.8m | 3.4m |
| Rotor diameter | 2m | 2.5m | 3m | 3.6m |

1. Low starting wind speed and high utilization rate of wind energy; Small size, light weight, beautiful appearance, and low operating vibration.
2. The rotating body can be selected as a hoop or flange, which is convenient for various installation requirements.
3. The wind turbine blades adopt a new process of precision injection molding, combined with optimized aerodynamic shape design and structural design. Three or five blades are freely selected, with high wind energy utilization coefficient and increased annual power generation.
4. The casing is integrally formed with die-casting aluminum alloy, combined with customized bearing rotations, with stronger typhoon resistance and safe and reliable operation.
5. The generator adopts a patented permanent magnet rotor AC generator with a special stator design, effectively reducing the resistance torque of the generator and thus reducing the starting wind speed; At the same time, the wind turbine and generator have better matching characteristics, ensuring the reliability of unit operation.
6. The intelligent tracking technology of wind power generation efficiency is adopted to effectively regulate the current and voltage, and the power generation conversion rate is high.

| Blades | Blade material | Generator Type | Braking method | Operation temperature |
|---|---|---|---|---|
| 4 Pieces | Aluminum alloy | Rare earth permanent magnet generator<br>rare earth permanent magnet suspension generator | electromagnetism | -40℃～80℃ |




| R 100W-300W | | | |
|---|---|---|---|
| Type | NE-100R | NE-200R | NE-300R |
| Rated Power | 100W | 200W | 300W |
| Rated Voltage | 12/24V | 12/24V | 12/24V |
| Start-up Wind | 1.6m/s | 1.6m/s | 1.6m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s |
| Wheel diameter | 0.9m | 0.9m | 0.9m |
| Wheel height | 0.6m | 0.6m | 0.6m |
| Blades | 5 pcs Nylon fiber | | |
| Generator | NdFeB three-phase AC permanent magnet generator | | |
| Protection | Electromagnetic | | |
| Working tep | -40°C～80°C | | |

1. Low starting wind speed, small size, light weight, beautiful appearance and low running vibration.
2. Hoop or flange can be selected for the rotary body, which is convenient for various installation requirements.
3. The wind rotor blade adopts new technology and is precision injection molded, with optimized aerodynamic shape design and structure design, and the wind energy utilization coefficient is high.
4. The casing is made of die-casting aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The controller of the intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power generation conversion rate is high.






| SV 100W-400W | | | | |
|---|---|---|---|---|
| Type | NE-100SV1 | NE-200SV1 | NE-200SV2 | NE-300SV2 |
| Rated Power | 100W | 200W | 200W | 300W |
| Rated Voltage | 12/24V | 12/24V | 12/24V | 12/24V |
| Start-up Wind | 1.8m/s | 1.8m/s | 2m/s | 2m/s |
| Survival Wind | 40m/s | 40m/s | 40m/s | 40m/s |
| Wheel diameter | 0.48m | 0.48m | 0.65m | 0.65m |
| Wheel height | 0.88m | 1.1m | 1.1m | 1.3m |
| Blades | 10 | 12 | 10 | 12 |
| Generator | NdFeB three-phase AC permanent magnet generator | | | |
| Protection | Electromagnetic | | | |
| Working tep | -40°C～80°C | | | |

1. Low starting wind speed, small size, light weight, beautiful appearance and low running vibration.
2. The rotary body is connected by flange, which is convenient for various installation requirements.
3. The wind rotor blades are made of high-quality aluminum alloy plates, which are rolled and formed after laser cutting. With optimized aerodynamic shape design and structural design, the wind energy utilization coefficient is high.
4. The casing is made of die-casting aluminum alloy as a whole, with customized bearing swivel, stronger typhoon resistance and safe and reliable operation.
5. The generator adopts the patented permanent magnet rotor alternator, with a special stator design, which effectively reduces the resistance torque of the generator, thereby reducing the starting wind speed; at the same time, the wind wheel and the generator have a better match Features to ensure the reliability of the unit operation.
6. The controller of the intelligent tracking technology of wind power generation efficiency can be selected, which can effectively adjust the current and voltage, and the power generation conversion rate is high.




## ● H510 型 200W-800W

| Model | NE-200H | NE-300H | NE-400H | NE-500H | NE-600H | NE-800H |
|---|---|---|---|---|---|---|
| Rated power | 200W | 300W | 400W | 500W | 600W | 800W |
| Wind turbine diameter | 0.78m | 0.95m | 0.95m | 1.16m | 1.16m | 1.35m |
| Wind turbine length | 1.2m | 1.3m | 1.4m | 1.6m | 1.8m | 2m |
| Rated voltage | 12/24V | 12/24V | 12/24V | 24/48V | 24/48V | 48/96V |
| Net weight of the host | 24kg | 37kg | 45kg | 67kg | 95kg | 130kg |
| Start wind speed | 1.8m/s | 1.8m/s | 1.8m/s | 1.8m/s | 1.8m/s | 2.3m/s |
| Rated wind speed | 11m/s | 11m/s | 11m/s | 11m/s | 11m/s | 11.5m/s |
| Generator type | Three-phase AC maglev generator | | | | | |
| Number of blades | 5 pieces | | | | | |
| Safe wind speed | 35m/s | | | | | |
| Braking method | Electromagnetic braking | | | | | |
| Connection method | Flange connection | | | | | |
| Blade material | aluminium alloy | | | | | |
| working temperature | -20℃－60℃ | | | | | |
| Design lifespan | 25 years | | | | | |
| Cut in wind speed | ≤4m/s | | | | | |
| Speed regulation method | Automatic adjustment of windward angle | | | | | |
| Insulation level | F | | | | | |
| Protection level | IP54 | | | | | |

1. Low starting wind speed and high utilization rate of wind energy; Small size, light weight, beautiful appearance, and low operating vibration.
2. The rotating body can be selected as a hoop or flange, which is convenient for various installation requirements.
3. The wind turbine blades adopt a new process of precision injection molding, combined with optimized aerodynamic shape design and structural design. Three or five blades are freely selected, with high wind energy utilization coefficient and increased annual power generation.
4. The casing is integrally formed with die-casting aluminum alloy, combined with customized bearing rotations, with stronger typhoon resistance and safe and reliable operation.
5. The generator adopts a patented permanent magnet rotor AC generator with a special stator design, effectively reducing the resistance torque of the generator and thus reducing the starting wind speed; At the same time, the wind turbine and generator have better matching characteristics, ensuring the reliability of unit operation.
6. The intelligent tracking technology of wind power generation efficiency is adopted to effectively regulate the current and voltage, and the power generation conversion rate is high.








## ● H530 型 3kW-100kW

| Model | NE-3KH | NE-5KH | NE-10KH | NE-30KH | NE-50KH | NE-100KH |
|---|---|---|---|---|---|---|
| Rated power | 3kW | 5kW | 10kW | 30kW | 50kW | 100kW |
| Wind turbine diameter | 2.63m | 3.15m | 4.25m | 7.5m | 8m | 12m |
| Wind turbine length | 4.2m | 5m | 6.8m | 11.5m | 16m | 20m |
| Rated voltage | 120/220V | 120/220V | 220/380V | 220/380V | 380V | 380V |
| Start wind speed | 2.1m/s | 3m/s | 3m/s | 3.5m/s | 3m/s | 3.5m/s |
| Rated wind speed | 11.5m/s | 12m/s | 12m/s | 13m/s | 12.5m/s | 13m/s |
| Generator type | Three phase AC external rotor permanent magnet generator | | | | | |
| Number of blades | 5 pieces | | | | | |
| Safe wind speed | 35m/s | | | | | |
| Braking method | Electromagnetic braking | | | | | |
| Connection method | Flange connection | | | | | |
| Blade material | aluminum alloy \| Aluminum alloy+keel | | | | | |
| working temperature | -20℃－60℃ | | | | | |
| Design lifespan | 25year | | | | | |
| Cut in wind speed | ≤4m/s | | | | | |
| Tower parameters | Independent tower/hydraulic tower (height customizable) | | | | | |
| Speed regulation method | Automatic adjustment of windward angle | | | | | |
| Insulation level | F | | | | | |
| Protection level | IP54 | | | | | |

1. Adopting an exterior structure design with independent intellectual property rights, it perfectly achieves the effect of starting with a gentle breeze and generating electricity with a gentle breeze. The entire machine is small in size, light in weight, beautiful in appearance, and low in operating vibration.
2. The generator casing is made of high-strength aluminum alloy through die casting or high-quality alloy steel coil forming, with high mechanical strength and good heat dissipation performance. Equipped with a special stator and rotor design, effectively reducing the running resistance torque.
3. The wind turbine blade adopts a new process of wire drawing aluminum die, which is precisely manufactured and molded. With optimized aerodynamic shape design and structural design, the wind energy utilization coefficient is high, and the annual power generation is increased.
4. The main blade bracket is made of high-quality alloy steel plates that have been laser cut and bent into shape, with high installation accuracy and stronger typhoon resistance, ensuring the safe and reliable operation of the fan.
5. The entire machine adopts a waterproof and dustproof design to meet the usage conditions under different working conditions. An auxiliary wind wheel is installed in the middle of the fan to further improve the range of wind speed utilization and ensure the electricity demand in low wind speed areas.
6. The intelligent tracking technology of wind power generation efficiency is adopted to effectively regulate the current and voltage, and the power generation conversion rate is high.
7. Low noise during operation, fully automatic windward operation, suitable for various occasions. Adopting a distributed wind power generation layout can effectively solve the problem of difficult electricity consumption for customers.




1. Adopt low-speed permanent magnet generator, direct drive without gearbox transmission design;
2. Has CE, ISO9001, ISO14001, ISO45001 and other certifications and a number of intellectual property patents;
3. Multi-level safety protections such as intelligent mechanical brakes, electromagnetic brakes and automatic adjustment of the windward angle with the company's independent intellectual property rights are guaranteed according to real-time monitoring data.Safe and stable operation of wind turbines in extreme weather;
4. The motor casing is integrally formed by casting aluminum profiles, with good heat dissipation and light weight;Anti-corrosion measures, high mechanical performance and durability;
5. The wind rotor blades are precisely manufactured and formed by new technology, with optimized aerodynamic shape design and structure design, easy to install, stronger ability to resist strong wind.The high utilization factor of wind energy increases the annual power generation;
6. Professional magnetic circuit design, low starting torque of the motor, reducing the starting wind speed and improving the utilization rate of wind energy;
7. With humanized design, the overall components are light and flexible, which is convenient for hoisting, installation and disassembly;
8. Suitable for applications in small wind farms, smart grids and other occasions;





# GF type

HORIZONTAL AXIS WIND TURBINE

| 3~10KW | | | | |
|---|---|---|---|---|
| Type | NE-3kGF | NE-5kGF | NE-7.5kGF | NE-10kGF |
| Rated Power | 3kW | 5kW | 7.5kW | 10kW |
| Max Power | 3.5kW | 8kW | 9kW | 12kW |
| Rated Voltage | 240V/380V | 240V/380V | 240/380V | 240/380V |
| Start-up Wind | 2.8m/s | 3.0m/s | 3.0m/s | 3.0m/s |
| Rated Wind | 10m/s | 10m/s | 10m/s | 10m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s | 45m/s |
| Wheel diameter | 4.9m | 5.8m | 6.1m | 6.6m |

| 12.5~30KW | | | | |
|---|---|---|---|---|
| Type | NE-12.5kGF | NE-15kGF | NE-20kGF | NE-30kGF |
| Rated Power | 12.5kW | 15kW | 20kW | 30kW |
| Max Power | 14kW | 17kW | 22kW | 33kW |
| Rated Voltage | 240/380V | 380V | 380V | 380V |
| Start-up Wind | 3.0m/s | 3.0m/s | 3.0m/s | 3.0m/s |
| Rated Wind | 11m/s | 11.5m/s | 10.5m/s | 10.5m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s | 45m/s |
| Wheel diameter | 6.6m | 7.2m | 9.2m | 11.8m |

| Blades | Generator type | Protection control system | Working tep | Lubrication |
|---|---|---|---|---|
| 3pcs Reinforced FRP | NdFeB three-phase AC permanent magnet generator | Automatically adjust the windward angle /mechanical brake | -40℃～80℃ | Add grease |




1. Adopt low-speed permanent magnet generator, direct drive without gearbox transmission design;
2. Has CE, ISO9001, ISO14001, ISO45001 and other certifications and a number of intellectual property patents;
3. Multi-level safety protections such as intelligent mechanical brakes, electromagnetic brakes and automatic adjustment of the windward angle with the company's independent intellectual property rights are guaranteed according to real-time monitoring data.Safe and stable operation of wind turbines in extreme weather;
4. The motor casing is integrally formed by casting aluminum profiles, with good heat dissipation and light weight;Anti-corrosion measures, high mechanical performance and durability;
5. The wind rotor blades are precisely manufactured and formed by new technology, with optimized aerodynamic shape design and structure design, easy to install.The high utilization factor of wind energy increases the annual power generation;
6. Professional magnetic circuit design, low starting torque of the motor, reducing the starting wind speed and improving the utilization rate of wind energy;
7. With humanized design, the overall components are light and flexible, which is convenient for hoisting, installation and disassembly;
8. Suitable for applications in small wind farms, smart grids and other occasions;



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Nai Er Feng Dian

# G type

HORIZONTAL AXIS WIND TURBINE

| 3~10KW | | | | |
|---|---|---|---|---|
| Type | NE-3kG | NE-5kG | NE-7.5kG | NE-10kG |
| Rated Power | 3kW | 5kW | 7.5kW | 10kW |
| Max Power | 3.5kW | 6kW | 9kW | 12kW |
| Rated Voltage | 240V/380V | 240V/380V | 240/380V | 240/380V |
| Start-up Wind | 2.8m/s | 3.0m/s | 3.0m/s | 3.0m/s |
| Rated Wind | 10.5m/s | 11m/s | 11m/s | 11m/s |
| Survival Wind | 40m/s | 40m/s | 40m/s | 40m/s |
| Wheel diameter | 4.7m | 5.3m | 5.7m | 6.3m |

| 12.5~30KW | | | | |
|---|---|---|---|---|
| Type | NE-12.5kG | NE-15kG | NE-20kG | NE-30kG |
| Rated Power | 12.5kW | 15kW | 20kW | 30kW |
| Max Power | 14kW | 17kW | 22kW | 33kW |
| Rated Voltage | 240/380V | 380V | 380V | 380V |
| Start-up Wind | 3.0m/s | 3.0m/s | 3.0m/s | 3.0m/s |
| Rated Wind | 11.5m/s | 11.5m/s | 11.5m/s | 11.5m/s |
| Survival Wind | 40m/s | 40m/s | 40m/s | 40m/s |
| Wheel diameter | 7.1m | 7.7m | 9.1m | 11.7m |

| Blades | Generator type | Protection control system | Working tep | Lubrication |
|---|---|---|---|---|
| 3pcs Reinforced FRP | NdFeB three-phase AC permanent magnet generator | Automatically adjust the windward angle /mechanical brake | -40℃~ 80℃ | Add grease |



1.Ultrasonic anemometer: The conventional mechanical anemometer has a simple structure, and the internal rotating parts have wear and loss, which is easily damaged by wind and sand, and is vulnerable to freezing,Rain and snow interference.The new ultrasonic anemometer has no mechanical friction loss, has a small and compact structure, is less affected by the outside world, and has high reliability.For accurate detection of real-time wind conditions.

2.Solar aviation indicator light: instead of traditional indicator light, no external power supply is required, saving installation space. The device uses silicon solar panels, multi-layer LED light Originating from one-piece composition, high-efficiency silicon solar physical panels provide large-capacity maintenance-free storage batteries for power storage, providing power for flashers to flash at night

3. Stainless steel ball lightning rod: The whole is made of SUS304 stainless steel, which is anti-corrosion, beautiful in shape, simple in structure and convenient in installation. Can be used for direct lightning protection, protection angle Wide range and strong wind resistance.

4. Intelligent automatic fire extinguishing material integrated sticker: This product is an innovative invention in the fire protection industry. It is a simple and highly reliable independent automatic fire extinguishing device. without any power supply, no need for special smoke and temperature sensors, no need for responsible equipment and pipelines, only need to be pasted inside the equipment to accurately and effectively detect and flutter.Destroy the source of goods and stifle the scourge at the initial stage

5. Automatic grease filler: instead of the traditional steps of manually adding grease to the bearing, it is automatically controlled by the program, and the bearing parts are filled on time and accurately butter.



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# Electronically controlled

## HORIZONTAL AXIS WIND TURBINE

| 10~60KW | | | | | |
|---|---|---|---|---|---|
| Type | NE-10kD | NE-20kD | NE-30kD | NE-50kD | NE-60kD |
| Rated Power | 10kW | 20kW | 30kW | 50kW | 60kW |
| Max Power | 12kW | 23kW | 33kW | 55kW | 65kW |
| Rated Power | 240V/380V | 240V/380V | 380V | 380V | 380V |
| Start-up Wind | 2.8m/s | 3.0m/s | 3.0m/s | 3.0m/s | 3.0m/s |
| Rated Wind | 10.5m/s | 10.5m/s | 11m/s | 11m/s | 11m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s | 45m/s | 45m/s |
| Wheel Diameter | 7.2m | 9.3m | 11.9m | 15.3m | 17.3m |

| 80~500KW | | | | | |
|---|---|---|---|---|---|
| Type | NE-80kD | NE-100kD | NE-200kD | NE-300kD | NE-500kD |
| Rated Power | 80kW | 100kW | 200kW | 300kW | 500kW |
| Max Power | 90kW | 110kW | 220kW | 330kW | 550kW |
| Rated Power | 380V | 380V | 440V | 440V | 480V |
| Start-up Wind | 3.0m/s | 3.0m/s | 3.0m/s | 3.0m/s | 2.5m/s |
| Rated Wind | 10.5m/s | 10.5m/s | 10.5m/s | 10.5m/s | 10.5m/s |
| Survival Wind | 45m/s | 45m/s | 45m/s | 45m/s | 45m/s |
| Wheel Diameter | 19.5m | 21.5m | 27.5m | 30.5m | 45m |

| Blades | Generator type | Protection control system | Working tep |
|---|---|---|---|
| 3pcs Reinforced FRP | NdFeB three-phase AC permanent magnet generator | Protection control system/ mechanical brake | -40℃～80℃ |