乃尔风电
Nai Er Feng Dian

NAIER WIND POWER

PRODUCT CATALOG

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
SCREW-TYPE——18

GF-TYPE
GF——21/22

DK-TYPE
DK——25/26

M-TYPE
M/M2——7/8
M3/M4——9/10
M4/M5——11

Q-TYPE
Q/Q2——13/14
Q4/Q10——15/16

H-TYPE
H TYPE/H530TYPE——19/20

G-TYPE
G——23/24

乃尔风电
Nai Er Feng Dian



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.

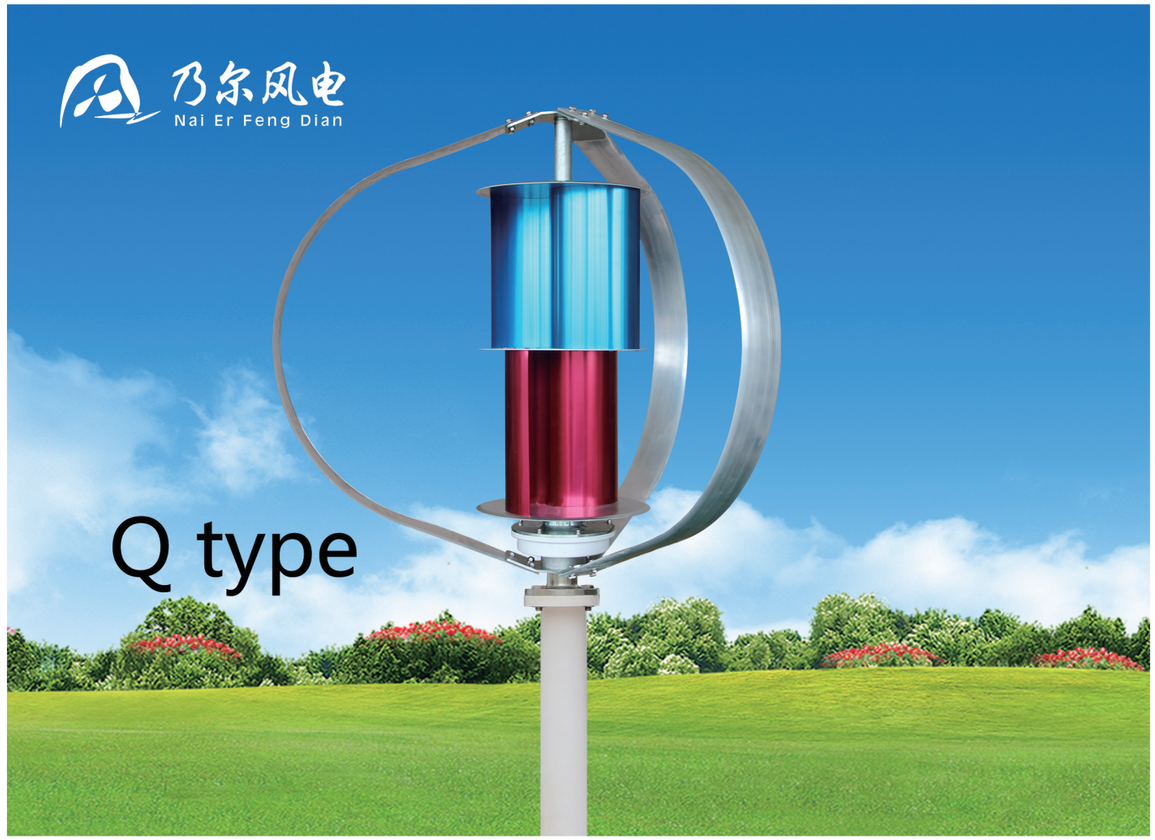
Blades	Generator type	Sheel material	Protection system	Working tep	Lubrication
3 pcs Nylon fiber	NdFeB three-phase AC permanent magnet generator	Aluminum alloy	Electromagnetic / wind wheel sideways	-40℃～80℃	Add grease



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 rare earth permanent magnet suspension generator	electromagnetism	-40℃～ 80℃

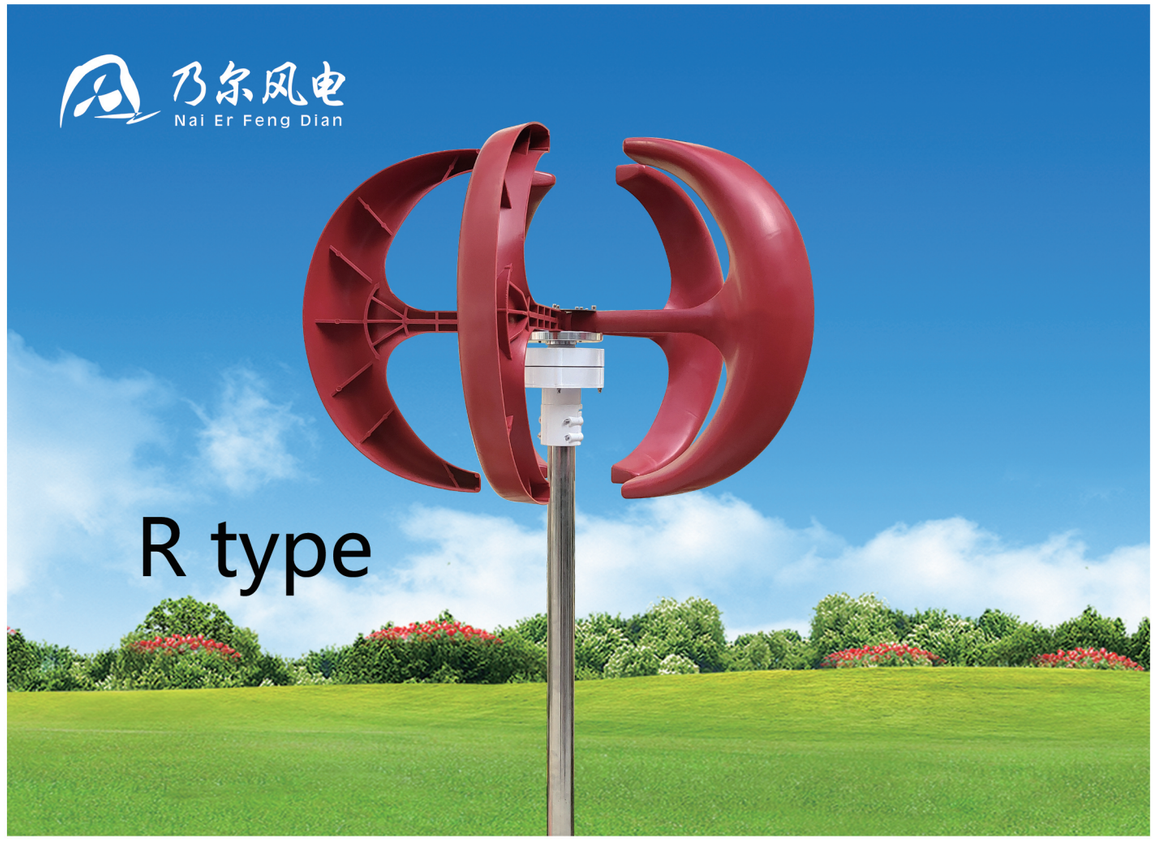


Q10 1KW-5KW

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 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.



H 50W-200W			
Model	NE-50H	NE-100H	NE-200H
Rated power	50W	100w	200W
Maximum power	60W	120W	220W
Rated voltage	12V/24V	12V/24V	12V/24V
Start wind speed	2m/s	2m/s	2m/s
Rated wind speed	12m/s	12m/s	12m/s
Security wind speed	35m/s	35m/s	35m/s
Rotor diameter	0.65m	0.65m	0.7m

Blades	Blade material	Generator Type	Braking method	Operation temperature
3/5pieces	High strength brushed aluminum profiles	Rare earth permanent magnet generator rare earth permanent magnet suspension generator	electromagnetism	-40℃～80℃

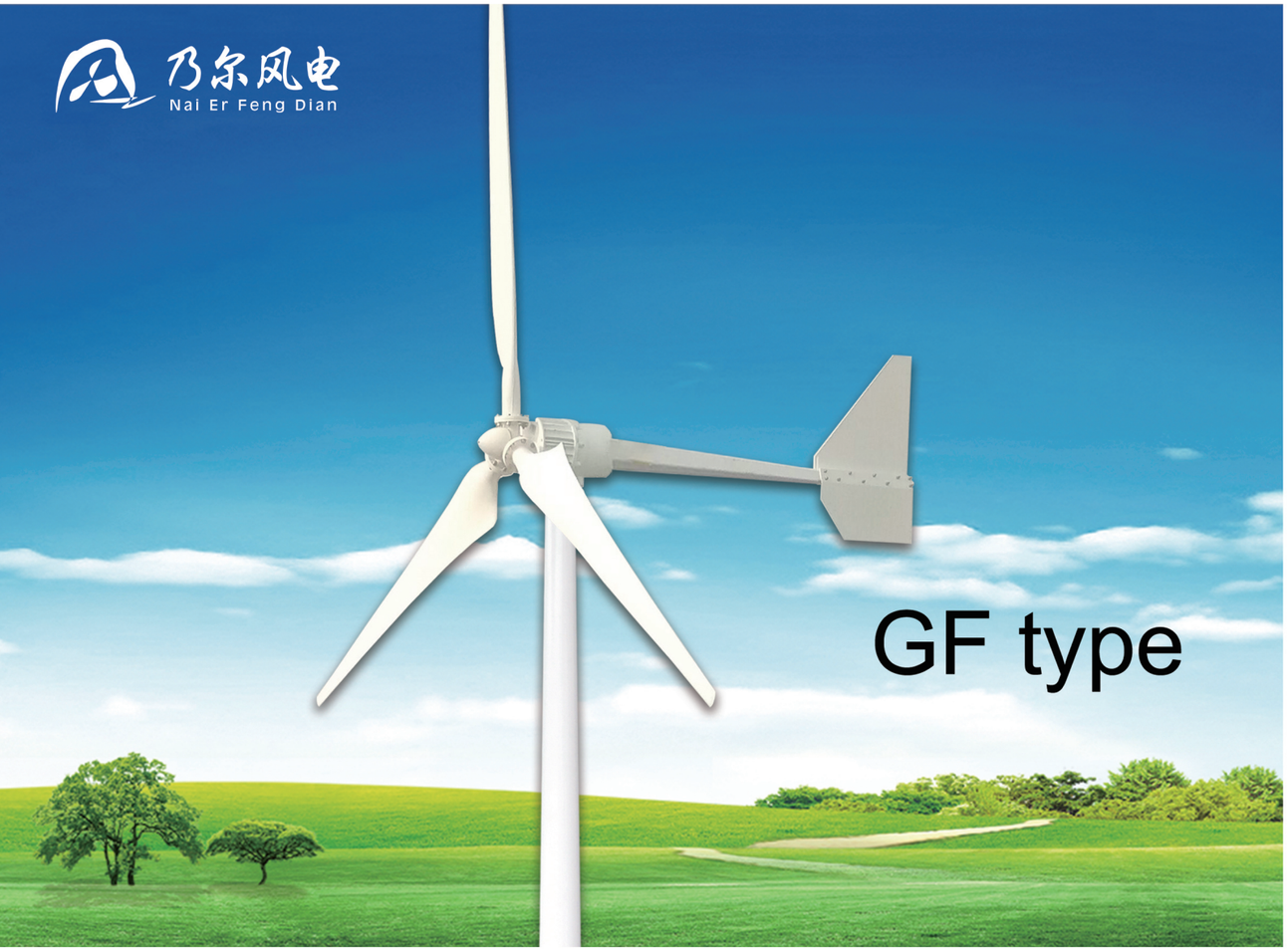
1. Low starting wind speed and high utilization rate of wind energy; Small size, light weight, beautiful appearance, and low operating vibration.
2. The rotating body can be selected as a hoop or flange, which is convenient for various installation requirements.
3. The wind turbine blades adopt a new 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 300W-30KW					
Rated power	300W-400W	500W-600W	800W-1KW	2KW-3KW-5KW	10KW-20KW-30KW
Rated voltage	12/24V	24/48V	48/96V	120/220V	220/380V
Start wind speed	2m/s	2m/s	2.1m/s	2.1m-2.1m-3m/s	3m-3.5m-3.5m/s
Rated wind speed	11m/s	11m/s	11.5m/s	11.5m-11.5m-12m/s	12m-13m-13m/s
Security wind speed	35m/s	35m/s	35m/s	35m/s	35m/s
Wind turbine length	1.3m-1.4m	1.6m-1.8m	2m-2.5m	3.2m-4.2m-5m	6.8m-9.5m-11.5m
Rotor diameter	0.95m	1.16m	1.35m-1.67m	2.1m-2.63m-3.15m	4.25m-6.05m-7.5m
Connecting flange	DN40	DN50	DN80-DN125	DN125-DN200--DN200	非标定制

Blades	Blade material	Generator Type	Braking method	Operation temperature
5 pieces	High strength brushed aluminum profiles	Three-phase AC external rotor permanent magnet generator	Electromagnetic braking	-40℃～80℃

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;

乃尔风电
Nai Er Feng Dian

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℃