

FS Series Wind Generator



Features

- Rich colors. The blades could be white, orange, yellow, blue, green, mixed, and any other color.
- Various voltages. 3 phase AC output, suitable for charging 12V, 24V, 48V batteries.
- One-piece Blade design ensures higher rotational stability, low noise.
- Coreless generator means lower start torque, lower start wind speed, longer service life.
- RPM limit protection. The RPM is kept under 300 regardless of high wind speed which prevents – the controller from over-load.
- Easy installation. Full set of fasteners and installation tools are attached in the package.
- Long service life. The turbine could work 10~15 years under normal natural environments.

Projects

Case show



Specifications

item	FS-100	FS-200	FS-600	FS-1000	FS-2000
Started wind speed	1.3 m/s	1.3 m/s	1.3 m/s	1.5 m/s	1.5 m/s
Cut-in wind speed	2.5 m/s	2.5 m/s	2.5 m/s	3 m/s	3 m/s
Rated Wind speed	11 m/s	11 m/s	11 m/s	11 m/s	11 m/s
Rated voltage (AC)	12/24V	12/24V	12/24V	24v/48v	48v/96v
Rated power(W)	100W	200W	600W	1000w	2000w
Max power(W)	105W	210W	610W	1010w	2100w
Wheel diameter(m)	0.4	0.52	0.52	0.67m	0.8m
Weight	<19Kg	<21Kg	<23Kg	<40Kg	<80Kg
Blades height(m)	0.9m	1.05m	1.3m	1.5m	2m
Safe wind speed	≤40m/s				
Blades quantity	2				
Blade material	glass/basalt				
Generator	Three phase permanent magnet suspension motor				
Control System	Electromagnet				
Generator protection grade	IP54				
Work environment temperature	-25--+45°C,				
Altitude	≤4500m				
Overspeed protection	Electromagnetic brake				
Overload protection	Electromagnetic brake and the unloading unit				

FX Series Wind Generator



Features

- Curved blade design, utilizes wind resource effectively and obtains a higher power generation.
- Coreless generator; Horizontal rotation and aircraft wing design reduce the noise to an unperceivable level in natural environment.
- Wind resistance. Horizontal rotation and triangular double fulcrum design make it only bear a small wind pressure even in strong wind.
- Rotation radius. smaller rotation radius than other types of wind turbines, space is saved while efficiency improved.
- Effective wind speed range. special control principle expended the wind speed to 2.5 ~ 25m/s, utilizes wind resource effectively and obtains a higher power generation.

Projects

Case show



Specifications

Item	FX-600	FX-800	FX-1000	FX-2000
Started wind speed	1.3 m/s	1.3 m/s	1.3 m/s	1.3 m/s
Cut-in wind speed	2.5 m/s	2.5 m/s	2.5 m/s	2.5 m/s
Rated Wind speed	10 m/s	10 m/s	10 m/s	10 m/s
Rated voltage (AC)	12v/24v/48v	12v-48v	24v-120v	48v-220v
Rated power(W)	600W	800W	1000W	2000w
Max power(W)	350W	650W	850W	1050w
Wheel diameter(m)	0.8m	1.1m	1.1m	1.6m
Blades height(m)	1m	1.32m	1.64m	1.8m
Weight	<21Kg	<45Kg	<70Kg	<96Kg
Safe wind speed				
Blades quantity	2			
Blade material	glass/basalt			
Generator	Three phase permanent magnet suspension motor			
Generator protection grade	IP54			
Work environment temperature	-25~+45°C			
Altitude	≤4500m			
Overspeed protection	Electromagnetic brake			
Overload protection	Electromagnetic brake and the unloading unit			

* Parameter configuration can be customized

FH Series Wind Generator



Features

- Security. Using vertical blades and triangular double-fulcrum, The problems of blade lose/broken or leaf flying-out have been well solved.
- Low noise. Coreless generator and horizontal rotation with aircraft wing design reduce the noise to an unperceivable level in natural environment.
- Wind resistance. Horizontal rotation and triangular double fulcrum design make it only bear a small wind pressure even in strong wind.
- Rotation radius. smaller rotation radius than other types of wind turbines, space is saved while efficiency improved.
- Power generation curve. The power generation increasing gently, it could produce 10% to 30% more power than other types of wind turbines.
- Effective wind speed range. special control principle expended the wind speed to 2.5 - 25m/s, utilizes wind resource effectively and obtains a higher power generation.
- Brake device. The blade itself has speed protection, and can configure manual mechanical and electronic brake meantime.
- Operation and maintenance. Without gear box and steering mechanism, the wind turbine only needs regula check every 6 months.

Specifications

item	FH-400	FH-600	FH-800	FH-1000	FH-2000
Rated power	400w	600w	800w	1000w	2000w
Rated voltage	24v-96v	48v-220v	120v-380v	24v-96v	48v-220v
Start wind speed	2.5m/s	2.5m/s	3m/s	2.5m/s	2.5m/s
Rated wind speed	10m/s	10m/s	10m/s	10m/s	10m/s
Rated RPM	220	260	300	220	260
Net weight	21kg	23kg	26kg	70kg	90kg
Wheel diameter	0.6m	0.62m	0.8m	1.6m	2m
Blades height	1m	1.1m	1.3m	2.0m	2.8m
Number of blades	3	3	3	3	3
Blades material	Aluminum alloy				
Generator type	3 phase permanent magnet AC synchronous generator				
Magnet material	NdFeB				
Yaw mode	Electromagnet				
Work temperature	-40°C-80°C				



Projects

Case show

FH Series Wind Generator



Features

- Security. Using vertical blades and triangular double-fulcrum, The problems of blade lose/broken or leaf flying-out have been well solved.
- Low noise. Coreless generator and horizontal rotation with aircraft wing design reduce the noise to an unperceivable level in natural environment.
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- Operation and maintenance. Without gear box and steering mechanism, the wind turbine only needs regula check every 6 months.

Specifications

item	FH-3000	FH-5000	FH-8000	FH-10kw	FH-15kw	FH-20kw
Rated power	3000w	5000w	8000w	10kw	15kw	20kw
Rated voltage	120v-380v	120v-380v	120v-380v	300v-380v	300v-380v	300v-400v
Start wind speed	3m/s	3m/s	3m/s	3m/s	3m/s	3m/s
Rated wind speed	10m/s	10m/s	10m/s	10m/s	10m/s	10m/s
Rated RPM	300	350	350	200	200	150
Net weight	130kg	170kg	200kg	260kg	350kg	950kg
Wheel diameter	2m	2.4m	3m	4m	5m	5m
Blades height	3.2m	3.6m	4.2m	5m	6m	7m
Number of blades	3	3	3	3	3	3
Blades material	Aluminum alloy					
Generator type	3 phase permanent magnet AC synchronous generator					
Magnet material	NdFeB					
Yaw mode	Electromagnet					
Work temperature	-40°C-80°C					



Projects

Case show

FR-800W Wind Generator



Features

- Flower shape, Rich colors.
- maglev generator, low torque, easy to start up.
- vertical rotate, very low noise.
- 2 blades, easy to install and save space.
- Use the humanized flange installation design, which is convenient for installation and maintenance

Specifications

item	FR-600W	FR-1000W
Rated power	600W	1000W
Rated voltage	12/24V	24V/48V/96V
Start-up wind speed	2.0m/s	2.0m/s
Rated wind speed	13m/s	13m/s
Survival wind speed	50m/s	50m/s
Weight	8kg	25kg
Blade quantity	3 pieces	3 pieces
Blade height	0.68m	1.2m
Blade material	Glass fiber	
Generator	Maglev generator	
Controller system	Electromagnetic	
Working temperature	-40°C~80°C	



Projects

Case show

Q Series Wind Generator



Features

- Low starting wind speed, small size, beautiful appearance and low running vibration
- Use the humanized flange installation design, which is convenient for installation and maintenance
- The blades of the wind rotor are made of high-quality aluminum alloy plates, and the surface of the blades is sprayed or oxidized to enhance the anti-corrosion performance.
- The generator adopts the maglev suspension generator with special inner rotor design, and its torque is only one third of that of other ordinary permanent magnet

Specifications

item	Q-400	Q-1000	Q-2000	Q-3000
Started wind speed (m/s)	1.3m/s	1.3m/s	1.3m/s	1.3m/s
Cut-in wind speed (m/s)	3m/s	3m/s	3m/s	3m/s
Rated Wind speed (m/s)	11m/s	11m/s	11m/s	11m/s
Rated voltage(AC)	12v/24v	24v/48v	48v/96v	24v/48v
Rated power(W)	400w	1000w	2000w	3000w
Max power(W)	450w	1050w	2050w	3150w
Rotor Diameter of Blades(m)	0.8m	2.5m	3.38m	4.4m
Product assembly weight (Kg)	<20Kg	<210Kg	<370Kg	<710Kg
Blades height(m)	0.85m	2.3m	3.5m	4.5m
Safe wind speed (m/s)	≤40m/s	≤40m/s	≤40m/s	≤40m/s
Blades quantity	3	3	3	3
Blade material	alloy			
Generator	Three phase permanent magnet suspension motor			
Control System	Electromagnet			
Mount Height(m)	1~6m			
Generator protection grade	IP54			
Work environment temperature	-25~+45°C			



Projects

Case show

Q Series Wind Generator



Features

- Low start up speed, 3 or 5 blades optional for different wind speed areas, high wind energy utilization.
- Easy installation, tube or flange connection optional.
- Blades using new art of precision injection molding, matched with optimized aerodynamic shape and structure, which enhance the wind energy utilization and annual output.
- Body of casting aluminum alloy, making it survive stronger wind and run more safely.
- Patented permanent magnet ac generator, effectively reduce torque, well match the wind wheel and generator, and ensure the performance of whole system.
- Controller, inverter can be matched according to customers' specific needs.

Specifications

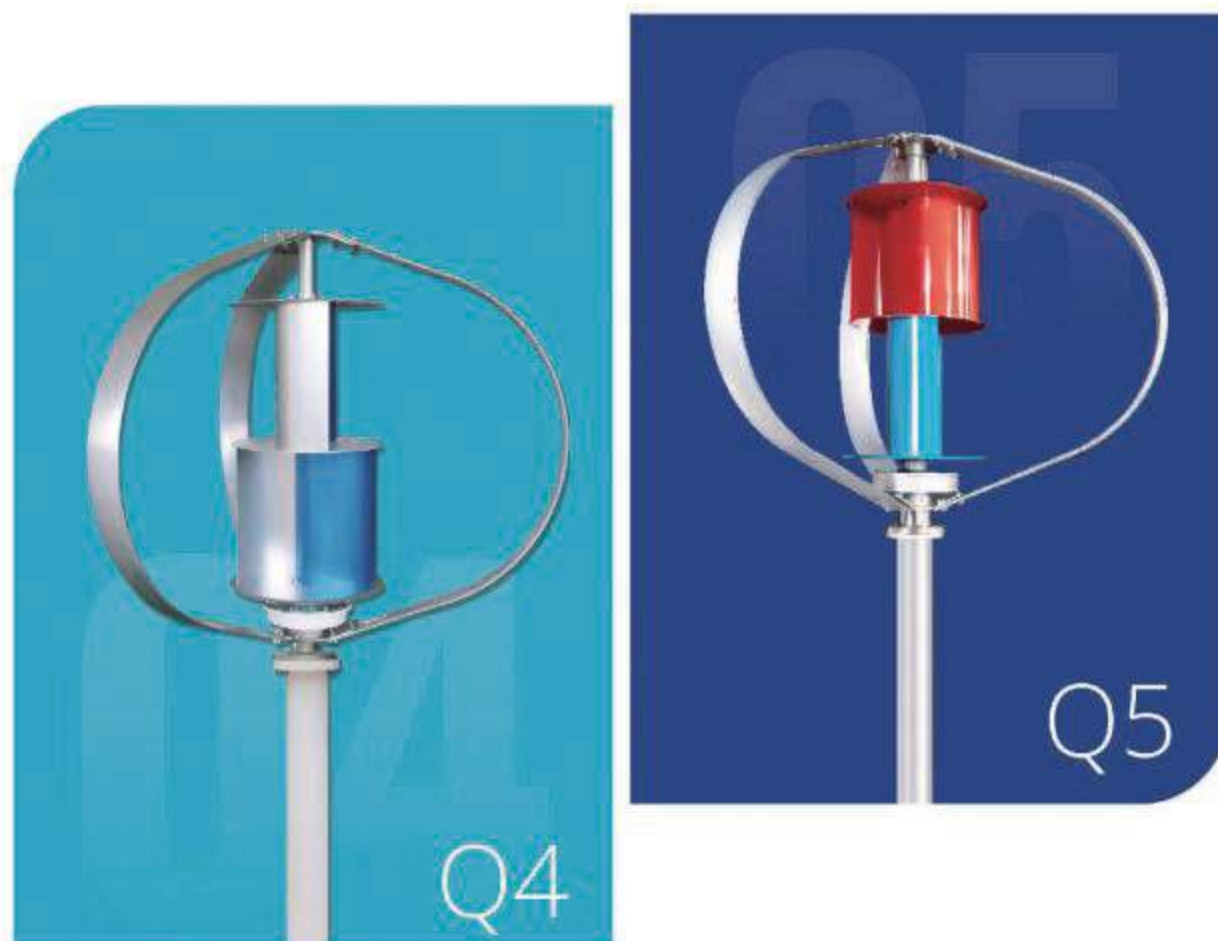
Model	Q1/Q2-100	Q1/Q2-200	Q1/Q2-300
Rated power	100W	200W	300W
Rated voltage	12V/24V		
Start the wind speed	2m/s		
Rated wind speed	12m/s		
Safe wind speed	≤50m/s		
Fan blade diameter/height	1*0.9		
Number of blades	3 high-speed blades+Assist the wind wheel		
Blade material	Aluminum alloy		
Fuselage material	Aluminum alloy		
Magnetic steel material	NdFeB		
Generator type	Three-phase AC permanent magnet levitation generator		
Control mode	Electromagnetic brakes		
Wind direction adjustment	360° automatic windward wind		
Service life	≥ 20 years		
Degree of protection	IP54		
Net weight/gross weight	16kg/17kg	16.5kg/17.5kg	17kg/18kg
Packing size	910*330*330mm+900*500*100mm		



Projects

Case show

Q Series Wind Generator



Features

- Low start up speed, 3 or 5 blades optional for different wind speed areas, high wind energy utilization.
- Easy installation, tube or flange connection optional.
- Blades using new art of precision injection molding, matched with optimized aerodynamic shape and structure, which enhance the wind energy utilization and annual output.
- Body of casting aluminum alloy, making it survive stronger wind and run more safely.
- Patented permanent magnet ac generator, effectively reduce torque, well match the wind wheel and generator, and ensure the performance of whole system.
- Controller, inverter can be matched according to customers' specific needs.

Specifications

Model	Q4-400	Q4-500	Q5-600	Q5-800	Q5-1000
Rated power	400W	500W	600W	800W	1000W
Rated voltage	12V/24V/48V		24V/48V/96V		
Start the wind speed	2m/s				
Rated wind speed	12m/s				
Safe wind speed	≤50m/s				
Fan blade diameter/height	1.15m/1m		1.3m/1.2m		1.6m/1.5m
Number of blades	3 high-speed blades+Assist the wind wheel				
Blade material	Aluminum alloy				
Fuselage material	Aluminum alloy				
Magnetic steel material	NdFeB				
Generator type	Three-phase AC external rotor generator				
Control mode	Electromagnetic brakes				
Wind direction adjustment	360° automatic windward wind				
Service life	≥ 20 years				
Degree of protection	IP54				
Packing size	1.13*0.43*0.43m+ 0.97*0.12*0.66m		1.22*0.5*0.6m+ 1.2*0.6*0.1m		1.6*0.7*0.7m+ 1.5*0.8*0.1
Net weight/gross weight	26kg/28kg	28kg/30kg	40kg/50kg	45kg/55kg	85kg/100kg



Projects

Case show

Q Series Wind Generator



Q10 MAX

Q10-1500
Q10-2000
Q10-3000
Q10-5000

Features

- Low start up speed, 3 or 5 blades optional for different wind speed areas, high wind energy utilization.
- Easy installation, tube or flange connection optional.
- Blades using new art of precision injection molding, matched with optimized aerodynamic shape and structure, which enhance the wind energy utilization and annual output.
- Body of casting aluminum alloy, making it survive stronger wind and run more safely.
- Patented permanent magnet ac generator, effectively reduce torque, well match the wind wheel and generator, and ensure the performance of whole system.
- Controller, inverter can be matched according to customers' specific needs.

Specifications

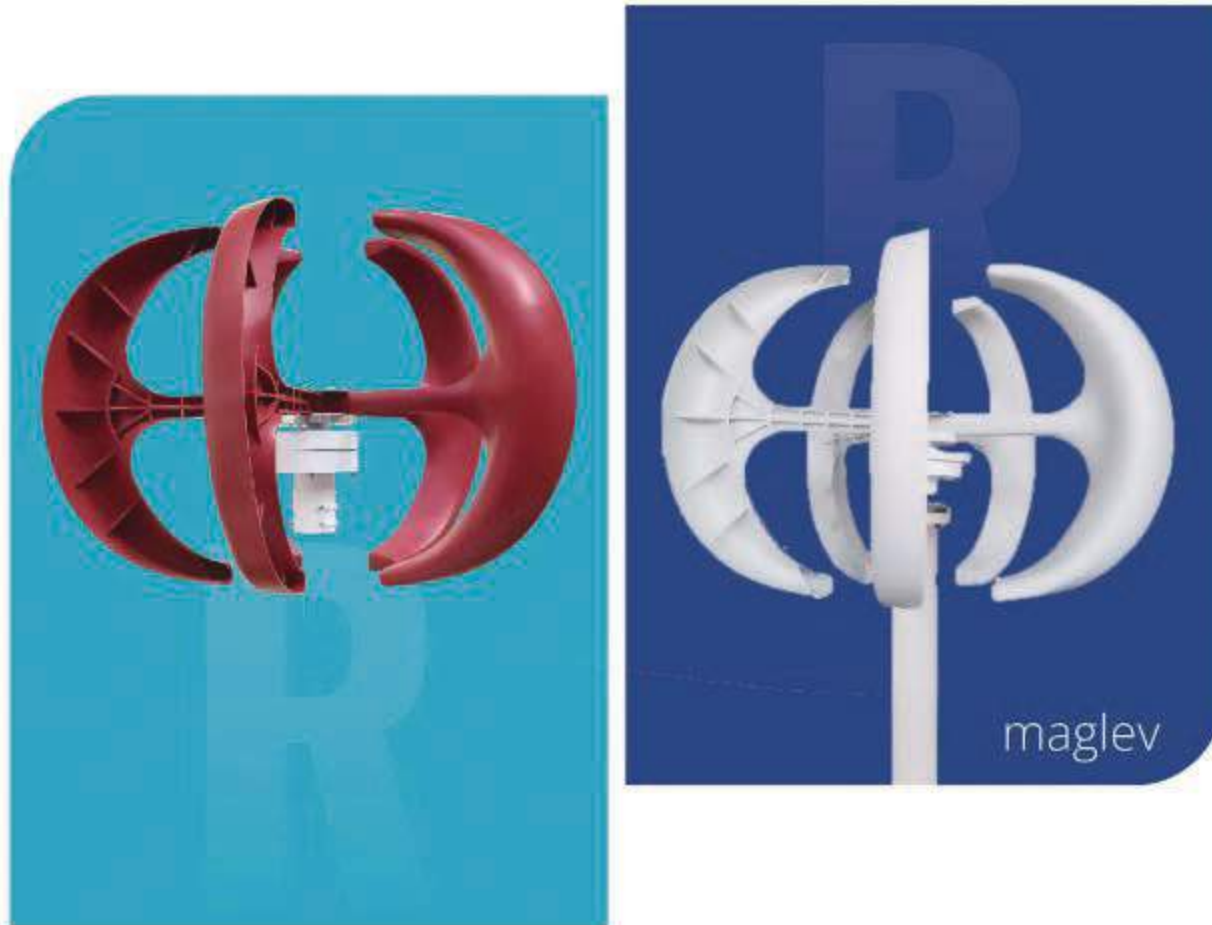
Model	Q10-1500	Q10-2000	Q10-3000	Q10-5000
Rated power	1500W	2000W	3000W	5000W
Rated voltage	48V/96V/120V/220V/380V			
Start the wind speed	2.5m/s			
Rated wind speed	12m/s			
Safe wind speed	≤50m/s			
Fan blade diameter/height	2m/1.9m	2.5m/2.4m	3m/2.9m	3.6m/3.5m
Number of blades	3 high-speed blades+Assist the wind wheel			
Blade material	Aluminum alloy			
Fuselage material	Aluminum alloy			
Magnetic steel material	NdFeB			
Generator type	Three-phase AC external rotor generator			
Control mode	Electromagnetic brakes			
Wind direction adjustment	360° automatic windward wind			
Service life	≥ 20 years			
Degree of protection	IP54			
Net weight/gross weight		200kg/270kg		
Packing size	2*0.7*0.7m+ 1.5*1*0.15m	2.4*0.85*0.85m+ 2*1.4*0.2m	3.2*1.03*1.14m+ 2.5*1.5*0.25m	3.8*1.2*1.3m+ 3*2*0.3m



Projects

Case show

R Series Wind Generator



Features

- Low start up speed, 3 or 5 blades optional for different wind speed areas, high wind energy utilization.
- Easy installation, tube or flange connection optional.
- Blades using new art of precision injection molding, matched with optimized aerodynamic shape and structure, which enhance the wind energy utilization and annual output.
- Body of casting aluminum alloy, making it survive stronger wind and run more safely.
- Patented permanent magnet ac generator, effectively reduce torque, well match the wind wheel and generator, and ensure the performance of whole system.
- Controller, inverter can be matched according to customers' specific needs.

Specifications

Model	R-50	R-100	R-200	R-300
Rated power	50W	100W	200W	300W
Rated voltage	12V/24V			
Start the wind speed	1.5m/s			
Rated wind speed	12m/s			
Safe wind speed	≤50m/s			
Fan blade diameter	0.9m/0.6m			
Number of blades	5/4			
Blade material	nylon			
Fuselage material	Aluminum alloy			
Magnetic steel material	NdFeB			
Generator type	Three-phase AC permanent magnet generator			
Control mode	Electromagnetic brakes			
Wind direction adjustment	360° automatic windward wind			
Service life	≥ 20 years			
Degree of protection	IP54			
Net weight/gross weight	9kg/10kg	9.5kg/10.5kg	10kg/11kg	11kg/12kg
Packing size	61*44*30cm			



Projects

Case show