

Reference model of a vertical axis wind turbine

Type of wind turbine: 1-stage, 2-blade winglets
 Rotor diameter: 2000 mm
 Blade length: 2700 mm
 Approx. output (*1): 120 W (at a wind speed of 5 m/s) and
 540 W (at a wind speed of 8 m/s)
 Rated output (*1): 3000 W (at a wind speed of 14.5 m/s)
 Cut-in wind speed: 2.0 m/s
 Blade material: Fiber reinforced plastics
 Battery voltage: 48 V (for an autonomous operation of power system)
 System interconnection: Available
 Generator: Permanent-magnet three-phase AC generator
 *1 The outputs at these wind velocities may vary depending on the set load.



Reference model of a propeller type wind turbine

Type of wind turbine: down-wind, 5-blade winglets
 Rotor diameter: 1500 mm
 Maximum rudder diameter: 1800 mm
 Approx. output (*1): 100 W (at a wind speed of 5 m/s) and
 400 W (at a wind speed of 8 m/s)
 Rated output (*1): 2000 W (at a wind speed of 14.5 m/s)
 Cut-in wind speed: 2.0 m/s
 Propeller material: Fiber reinforced plastics
 Battery voltage: 48 V (for an autonomous operation of power system)
 System interconnection: Available
 Generator: Permanent-magnet three-phase AC generator
 *1 The outputs at these wind velocities may vary depending on the set load.



Specifications may change without notice for product improvement.

Installation and application examples



Hagiwara strawberry farm in Shizuoka Fureai ranch in Tokyo Hadji-jima



Streetlights, lightings of parks and other facilities, billboards, power sources for security cameras and other security provisions, auxiliary and emergency power sources, household power sources, teaching materials for wind power generation, environmental monuments, pump and well installations, and more...

Beginning with wind turbine blades, our way of thinking from different perspectives can be applied to various fields and has caused revolutions in the shapes of screws, fans and flying boats.

Application of the Bellsion theory

~Pursuit of energy conservation~



Winglets bent toward the ground to prevent tip leakage

These flying boats have winglets on both sides, shaped to not allow the air coming from the front to escape sideways and to prevent stalls at wing tips. The winglets pressurize the air coming from the front and utilize the counteraction to lift the flying boat.

Business and services

1. Establishing wind turbine generator systems and providing advice and know-how

We design and plan systems and give advice according to your installation conditions and your desired power generation, making full use of our accumulated technologies.

2. Loyalty contract for patents and design rights

You can widely utilize the patents and design rights of the registered ideas we have studied and developed.

3. Prototyping new products and providing support

We consistently support you in the process of generating ideas, designing and prototyping of new products, and cooperate to promote commercialization of products.

4. Addressing environmental projects

We would like to actively participate in and cooperate with activities for natural environment, energy and other issues.

Past record of receiving grants and subsidies as of December 2008

- 2008 Tochigi prefecture subsidized project for support your business
- 2007, 2008 Tokyo Metropolitan subsidized project for small and medium-sized enterprises applying for foreign patents
- 2007 Highland Kanto Liaison Organization subsidized project for cooperative research under the theme of Class 1
- 2007 project for supporting the building industry in creating models for expanding into new fields

Bellsion

Patent pending on the Bellsion wind turbine technology

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Bellsion

Wind Power Revolution

“The opposite is also true” Amazing power

— Overturning conventional wisdom,
 we reversed the way and form in which force is used —

Bellsion Wind Turbine realizes wind power generation at unprecedented levels of efficiency, reduced cost and space saving. It's a new technology that can truly be called a “Wind Power Revolution”.



 GLOBAL ENERGY