

k800

w i n d t u r b i n e

Specifications

The new, fully aerodynamic K800 exemplifies the beauty of sophisticated aerodynamic design.

Every feature is designed to optimise small scale renewable energy generation. Its advanced pitch control regulation maintains full power in any winds that exceed the rated wind speed as pitch control spills the excess energy in such high winds, optimising energy harvest capacity. The K800 is durable and protected against moisture and dust making it suitable for all environments.

Modern living is generating more applications that demand energy usage. The K800 generates regulated and optimised energy for increased efficiency.

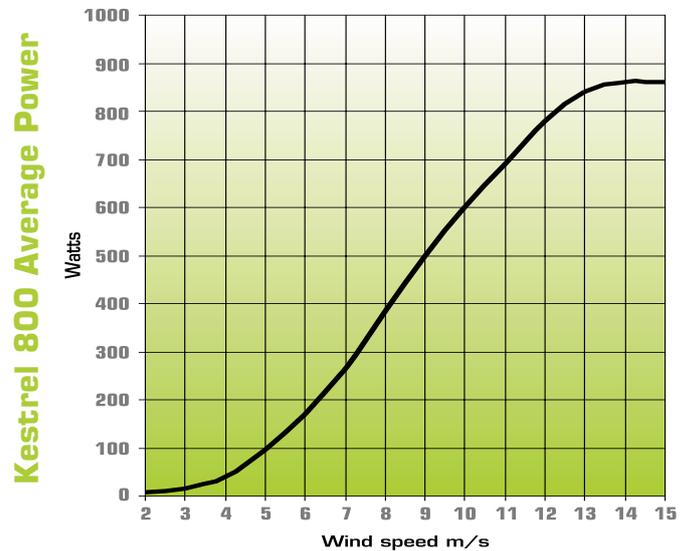
Design

The three aerofoil blades are regulated by passive pitch control that allows the K800 to generate usable energy almost noiselessly. With a diameter of 2,2m it is unobtrusive at a height of 12m or above.

Applications

- Cost saving mechanism, replacing noisy generators that rely on fossil fuels
- Boost other renewable energy installations with hybrid generation
- Approved grid tie inverters allow for optimised energy savings
- Water pumping potential with optional water pump controller

Suitable for urban living
Affordable electricity all year round on windy sites
A high performance 3 blade rotor, generating 800 watts, optimising full axial flux discoid technology
Reliable and convenient with a long life design



Specifications

| | |
|------------------------|-----------------|
| Rated Power | 800w |
| Rated Windspeed | 12.5m/s |
| Rated Rotational Speed | 1000rpm |
| Maximum Power | 850w from 13m/s |
| Cut in Windspeed | 2.8m/s |
| Alternator Type | Axial Flux |
| Rotor Diameter | 2.2m |
| Number of Blades | 3 |
| Type of Blades | Full Aerofoil |
| Tower Top Weight | 30kg |
| Speed Control | Pitch Control |
| Emergency Brake | Electrodynamic |
| Regulator | Dump or Shunt |
| Standard Volts (dc) | 12, 24, 48, 220 |
| Protection | IP55 |

Rated output is optimised by technology and design, namely dynamically limiting the output by pitch control as well as the upwind 3 blade design.

Rated output is achieved at the rated wind speed (sea level). Rated rotational speed is the turbine rpm for full and maintainable output.

The full aerofoil blades are moulded from glass fibre and protected.

and its international affiliates are committed to renewable energy generation and reducing the use of fossil fuel or thermal energy, with high carbon emissions. Wind power addresses most of the current issues of present power generation options. Kestrel manufactures are continuously developing small wind turbines that efficiently yield enough energy to supplement personal or small business energy demands. All distributors and dealers of Kestrel products are trained to support all the requirements of the customers.

Power Generation



Power output is low maintenance as routine maintenance is based on visual assessments. With a maximum instantaneous power rating of 850w, annual energy harvests exceed 3800kwh. Energy may be harvested at any different wind speed exceeding cut in speed but rated output is maintained at any different wind speed exceeding rated wind speed.

Results may vary based on wind distribution, topology, tower height and altitude. In order to estimate ones own potential energy harvest an average wind speed must be used.

Note: Specifications may vary with continuing development and innovation.

