**Vertical Axis Wind Turbine Kliux Zebra**

**Product Specifications Sheet**

Reviewed: 22/10/2013

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**UNIQUE DESING**
- Designed to maximize energy output in urban, inhabited areas.
- First vertical-axis wind turbine with a 9 α (α) blade in a Savonius type rotor (drag) made of expanded polyurethane supplied by Bayer MaterialScience.
- Designed and made in Spain.

**PRODUCT ADVANTAGES**
- No startup system needed.
- Minimal maintenance.
- Noiseless.
- Aesthetic visual integration in urban and rural locations.
- Bird friendly.

**APPLICATIONS**
- Power generation system best suited for private residences, public areas, rural tourism, sports venues, schools, universities, public parks, industrial areas, farms, water pumping stations and roads.
- Blades provide an excellent platform for branding and advertising.

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**WIND TURBINE ASSEMBLY COMPONENTS**
- Vertical axis wind turbine (VAWT) Kliux Zebra.
- Gear box. Three-phase Permanent Magnet Generator.
- Steel mast with anti-corrosion painting protection.
- Wind inverter Etesian Mini 2600, 2kW, 230 Vac, 50 Hz (Santerno). Grid Connection.
- GSM/Ethernet Communications module (optional).
- Weather station (optional).
- Voltage dischargers.

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**WIND TURBINE DIMENSIONS AND WEIGHTS**
- Rotor + Generator and transmission’s weight: 375,00 kg.
- Mast Weight: starting at 351 kg.
- Rotor’s diameter: 2,36 m.
- Rotor’s / Transmission’s height: 3,1 m / 0,83 m.
- Mast height: starting at 6 m.

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**WIND TURBINE YIELDS**
- Nominal power: 1.800 W.
- Start up speed: 3 m/s.
- Maximum rotation speed: 70 RPM.
- RPM limited by inverter power curve and generator resistance.
- Noise at 10 m distance: 32'6 dBA.
- Durability: 25 años.

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**ADDITIONAL INFORMATION**
- Blades’ material: Expanded polyurethane from Bayer MaterialScience.
- Rated output voltage: 230 Vac. (± 15%).
- Certifications: ISO: 9001, 14001 y CE.

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**WIND AVERAGE**

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<thead>
<tr>
<th>ANNUAL ENERGY GENERATED (kWh)</th>
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<tbody>
<tr>
<td>4</td>
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<td>5</td>
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**TOTAL ANNUAL ENERGY CURVE**

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