**UNIQUE DESIGN**
- Designed to maximize energy output in urban, inhabited areas.
- First vertical-axis wind turbine with a 9 alfa (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**
- Ideal for supplying 100% of the electricity consumption of an average household.
- 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.

### 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).
- GSM/Ethernet Communications module (optional).
- Weather station (optional).
- Voltage dischargers.

### SOLAR PHOTOVOLTAIC ASSEMBLY
- 15 Photovoltaic panels (monocrystalline) at 265 W each (3,975 W total).
- Solar Inverter Sunny Boy SB4000 TL-20, 4200 W, 230 Vac, 50 Hz (SMA).
- Aluminum structure to host the photovoltaic panels.

### 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.

### 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.

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

### WIND AVERAGE (m/s) VS ANNUAL ENERGY GENERATED (kWh)*

<table>
<thead>
<tr>
<th>WIND AVERAGE (m/s)</th>
<th>ANNUAL ENERGY GENERATED (kWh)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>5.649</td>
</tr>
<tr>
<td>5</td>
<td>6.702</td>
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<tr>
<td>6</td>
<td>7.529</td>
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<td>7</td>
<td>8.630</td>
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<tr>
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<td>9.706</td>
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<td>9</td>
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<tr>
<td>10</td>
<td>11.209</td>
</tr>
<tr>
<td>11</td>
<td>11.805</td>
</tr>
</tbody>
</table>

* PV production considering a location with 4.5 HSP

![Graph of annual energy generated vs wind average](chart.png)

Note: The data reflected here may differ without notice.