AirForce® 1
1kW MICRO WIND TURBINE SYSTEM

24V & 48V battery charging versions with AirForce® CONTROL

automatic stop - remote control – performance monitoring

Complete unit including Permanent Magnet Generator designed and manufactured in the UK by FUTURENERGY


Key features:

“Breakthrough in simplicity and usability”

Auto-stop based range of conditions including turbine rpm, wind speed or battery charge state

Dump-load, charge controllers and rectifier not required

Reduce installed components and prolong battery life

Simple electrical installation

High-performance own design Permanent Magnet Generator (PMG)

Web based portal for remote monitoring and control

Tough glass-reinforced-nylon turbine blades

All bearings sealed for life

Corrosion resistant materials throughout prolongs life-in-service

60 Amp rated slip-ring preventing cable twist

Compatible with solar-wind hybrid installation

Rugged, simple design, minimal maintenance

System supply includes anemometer
### AirForce® Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal power output:</td>
<td>All versions 1000W</td>
</tr>
<tr>
<td>Start-up wind speed:</td>
<td>~3.5 m/s</td>
</tr>
<tr>
<td>Rated wind speed:</td>
<td>12.5 m/s</td>
</tr>
<tr>
<td>Survival wind speed:</td>
<td>52 m/s</td>
</tr>
<tr>
<td>Total weight:</td>
<td>19 kg</td>
</tr>
<tr>
<td>Number of blades:</td>
<td>3 (5 blade set option for lower wind areas)</td>
</tr>
<tr>
<td>Rotor diameter:</td>
<td>1.8 m</td>
</tr>
<tr>
<td>Rotor speed (RPM):</td>
<td>200 - 800</td>
</tr>
<tr>
<td>Generator type:</td>
<td>3-Phase AC Permanent Magnet</td>
</tr>
<tr>
<td>Output type:</td>
<td>3-Phase AC (rectified DC available on request)</td>
</tr>
<tr>
<td>Turbine mounting:</td>
<td>50mm tube to accept 48.3mm standard scaffold tube</td>
</tr>
<tr>
<td>Noise:</td>
<td>LAeq 35dB @ 5m/s wind speed measured behind rotor</td>
</tr>
<tr>
<td></td>
<td>LAeq 54dB @ 7m/s wind speed measured behind rotor</td>
</tr>
</tbody>
</table>

### Web based monitoring portal:

- Web-based portal provides remote control & configuration
- Display live output and trending of historical data
- Start and stop turbine on command
- User configurable to match local conditions

### Accessories available:

- Guyed tower kit

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**For more information, contact:**

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FUTUREENERGY declares that this product complies with:

- LV Directive 73/23 EEC
- EMC Directive 89/336 EEC
- Machinery Directive 98/37/EC
- Fully ROHS compliant

**Made in Britain**

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All details may be subject to change without notice

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