



**Rotor Speed Control**

Above 12m/s (25mph) the blade pitch is automatically adjusted to maintain 300 rpm and full output up to 67m/s (150mph).

**High Build Quality**

All components are hot-dipped galvanised steel, stainless steel or plastic. All bearings are triple sealed.

**Low Speed Equals Durability**

Low rotor speed (half the speed of comparable machines) ensures extended durability of blades and bearings. It also means that Proven WTs are the quietest in the world!

**Proven WT2500 2.5kW Wind Turbine**  
**Proven TM1100 11m Un-Guyed Mast**

**Performance**

Cut-In Wind Speed 2.5 metres/second (5.6 mph)  
 Cut-Out Wind Speed none!  
 Rated Wind Speed 12 metres/second (26 mph)  
 Survival Wind Speed >65m/s (>150 mph)

**Rotor**

Type Down-wind, Self-Regulating  
 Number of Blades 3, Flexible  
 Blade Material Polypropylene  
 Rotor Diameter 3.5 metres (11' 1")

**Generator**

Type Brushless, Direct Drive  
 Permanent Magnet  
 (No Gear-Box, Zero Maintenance)  
 Output 24/48/120/240/300V  
 3-phase AC (20Hz nom)  
 Rated RPM 300 nom.  
 Rated Power 2500 Watts  
 Annual Output 3,300-7,400 kWh depending on site

**Mast**

Type Tapered, Hinged, Self-Supporting  
 Hub Height 11m (36' 0")  
 Foundation 2.56 m<sup>3</sup> concrete (no guy wires)  
 Base Ø 350 mm (13.8")  
 Top Ø 175 mm (6.9")

**Noise**

(all readings taken with an ATP SL-25 Portable Meter)

45dB At 5m/s  
 60dB At 20m/s  
 70-80dB Car 15m away at approx 40 mph.

**Weight**

WT2500 190 kg (418 lb.)  
 TM1100 445 kg (981 lb.)

**Sample of UK Commercial Customers**

British Telecom Scottish Youth Hostel Association  
 British Rail Irish Lighthouse Authority  
 Welsh Water UK Lighthouse Authority