

# Teddington Power Newsletter - August 2006



This is the first Teddington Power Newsletter for our Micro Generation Products.

If you attended our stand at either “Launceston Agricultural Show” or “Camelford Agricultural Show”, we hope you found the information provided informative.



We hope this Newsletter will help to answer some of your immediate questions.

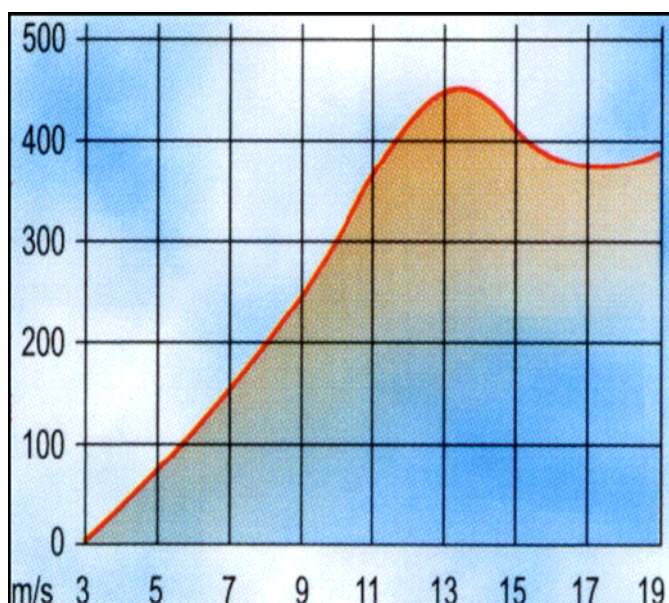
Teddington Power is currently developing a wind turbine system (Micro Generation) for business and domestic use. With rising fuel costs, and imminent power cuts, it has become more important to look at alternative energy sources. Wind power is one very good example of renewable energy.

The Teddington T400 Wind Generator has been designed to fulfil the requirements of small-scale power generation for domestic and small business applications.

- The T400 rotor blades are manufactured by applying the latest advanced thermoplastic engineering techniques with a precision injection moulding process. This ensures the blades are exceptionally strong; yet maintain an aerodynamic outline and mass distribution, that ensures the rotors are operating at very low noise performance and minimal vibration.
- The T400 has very low start-up/cut-in wind speed and high wind energy coefficient.
- T400 has adopted high-quality rare earth magnets, resulting in a miniature alternator with high power output, providing generated electricity at a very low wind speeds.
- The T400 body is made from high-quality aluminium; using precision casting processes to enhance its looks, reduce weight, while providing a mechanically strong structure.
- The T400 is designed for various working conditions such as severe climate, sand, salt corrosive environment and marine.
- A selection of output options are being developed, including battery charging, 240V AC sockets (inverter driven) and direct heating methods. Details of these will be made available when trials are complete.
- We are due to start trials on a 1Kw, 5Kw and 10Kw Wind Turbine before the end of this year.

## Teddington T400 Wind Turbine, Technical specifications and Power Curve

- Rotor diameter 1.4m
- Start up wind speed 3m/s
- Cut-in wind speed 3.5m/s (7mph)
- Rated wind speed 12.5m/s (27mph)
- Turbine Rated output 400W
- Survival wind speed 60m/s (130mph)
- Solar energy input 300W
- Battery Voltage 12V
- High Voltage Protection 15.2V DC
- Low Voltage Protection 10V DC



[T400 Power Curve](#)

### Installation.

- The T400 Wind turbine is supplied in kit form. Assembly is simple, and only takes 30 minutes. The T400 is designed to fit onto a standard 48mm scaffold pole.
- The kit includes a 150mm long mounting pole that can be fixed to an existing structure.
- Cable connections to the wind turbine are made simple using a plug and socket arrangement. The charger requires a 12V DC Battery to store the generated energy. The size of the battery depends much on the application and load required.
- The charger controller also has an option to connect a 300W PV solar panel to produce a hybrid system.

### Availability.

We are currently on target to have stock available for the first week in October. The system will include a Teddington T400 wind turbine (400Watts) and battery charger/controller.

We also have a range of AC inverters (Used to convert the 12VDC voltage stored in the battery to 240V AC for use with domestic appliances).

Our next Newsletter will detail system performance, typical applications and a full price list.

We thank you for the interest you have shown in our products.

For up to date information about our products, Please visit our web site.

**[www.tedcon.com](http://www.tedcon.com)**

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