



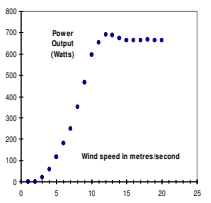
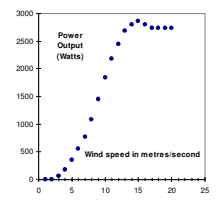
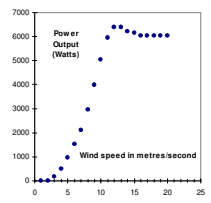
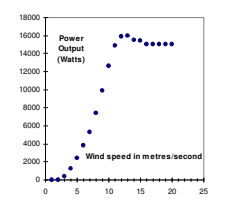


Proven Energy - Technical Specification Sheet

<p>Rotor Speed Control Above 12m/s or 25mph) blades twist to limit power in response to high rpm</p> <p>Low Speed Equals Durability</p>				
<p>Marine Build Quality All machines galvanised steel, stainless steel & plastic components</p>				
WT MODEL	WT600 (0.6kW)	WT2500 (2.5kW)	WT6000 (6kW)	WT15000 (15kW)
Cut In (m/s)¹	2.5			
Cut Out m/s	None!			
Survival m/s	70			
Rated (m/s)	10			
Rotor Type	Downwind, Self Regulating			
No. of Blades	3			
Blade Material	Polypropylene	Polypropylene	Twintex	Twintex
Rotor Diameter(m)	2.55	3.5	5.5	9
Generator Type	Brushless, Direct Drive, Permanent Magnet			
Battery charging	12 , 24 <i>or</i> 48V DC	24 <i>or</i> 48V DC	48V DC	48V DC
Grid connect with Windy Boy Inverter	n/a	230Vac 50Hz <i>or</i> 240 Vac 60Hz	230Vac 50Hz <i>or</i> 240 Vac 60Hz	230Vac 50Hz <i>or</i> 240 Vac 60Hz
Direct Heating	n/a	240Vac	240Vac	240V ac
Rated RPM	500	300	200	150
Annual Output²	900-1,500 kWh	2,500-5,000 kWh	6,000-12,000 kWh	15,000-30,000 kWh
Head Weight (kg)	70	190	600	1100
Mast Type	Tilt-up, tapered, self-supporting, no guy wires (Taller guyed towers also available on request)			
Hub Height (m)	5.5	6.5 <i>or</i> 11	9 <i>or</i> 15	15 <i>or</i> 25
WT Found (m)	1x1x1	1.6x1.6x1 <i>or</i> 2.5x2.5x1	2.5x2.5x1 <i>or</i> 3x3x1.2	3.7x3.7x1.2 <i>or</i> 5x5x1
Winch Found (m)	0.65x0.65x0.65	0.65x0.65x0.65 <i>or</i> 1x1x1	1x1x1 <i>or</i> 1.5x1.5x1	1.5x1.5x1.2 (no anchor foundation for 25m)
Tower Weight (kg)	120	241 <i>or</i> 445	360 <i>or</i> 656	1200
Mechanical Brake	No	Yes	Yes	Yes
Noise³ @ 5m/s	35 dBA	40 dBA	45 dBA	48 dBA
Noise @ 20m/s	55 dBA	60 dBA	65 dBA	65 dBA
Rotor Thrust (kN)	2.5	5	10	26
Sample of commercial customers	British Telecom Scottish Youth Hostel Association British Rail Irish Lighthouse Authority UK Lighthouse Authority T-mobile Orange Shell Exploration Saudi Aramco			

¹ 1 metre/second = 2.24 miles per hour=3.6kph

² Output range is quoted to cover typical average wind speeds (annual). Lighter wind sites with typical 4.5m/s will produce lower end of range. Higher wind speed sites e.g. 6.5m/s average will produce upper end of range.

³ All readings taken with an ATP SL-25 dBA meter at the base of the tower at a height of 1.5m.

* A car passing 20m away @ approx 40 mph is 70-80dBA