



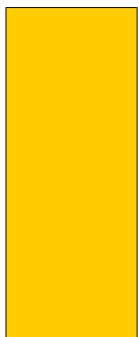
## Wind Turbine Generators

**Kestrel® Wind Turbines**

**Product Data from Dated from 11/25/2003**

**Kestrel600 / Kestrel300L**

*The Kestrel600 (Medium/High Wind) and the Kestrel300L (Low Wind)*



*Affordable Electricity from the Wind all year round*



*Saves on Fuel costs and replaces noisy Generators*



*Quite, reliable, maintenance free, long life design*



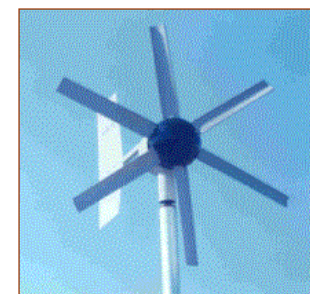
*For Stand Alone and Micro Wind Farm installations*



*Boost Solar Panle Arrays for hybrid generation*



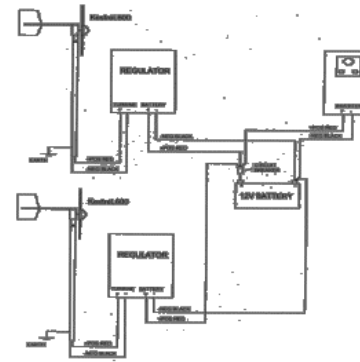
*Full technical support and backup*



Pictured  
here is the  
Kestrel600

Kestrel300L  
is fitted with  
a 12 blade  
rotor

*The Kestrel has been tested at the CSIR*



The Kestrel is easily installed giving useful outputs in low wind. A polyphase permanent magnet brushless alternator serves as generator. The Kestrel can be installed with solar panels for hybrid installations. Multiple turbines may be installed.

The Kestrel is the ideal solution for remote wind power with maintenance free all year round performance and enhanced light wind utilisation with high efficiency conversion.

Charging starts at around 3m/s. The wall mounting regulator uses electronic shunt regulation to control the turbine output for optimum charging and continuous loading of the generator.

### **Kestrel® Shunt Regulator**

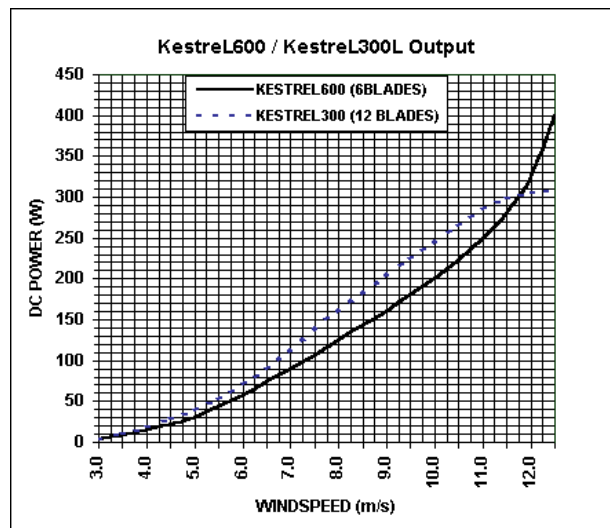
The regulator is designed for continuous 24hr operation and uses industry standard electronics to control the turbine output at all times. The Kestrel can power the load (Lights, TV, radio etc.) and charge the battery at the same time. The accurate voltage regulation ensures correct battery charging. The rectified polyphase output of the Kestrel minimises battery ripple current and extends battery life.



*Kestrel600 Regulator*



*Kestrel300L Regulator*



**Recommended: Kestrel600 for sites with medium to high mean wind speeds**

**Recommended: Kestrel300L for sites with lower to medium mean wind speeds**

Kestrel Sp	Kestrel600	Kestrel300L
Rated Power	400W	300W
Max. Power	600W	330W
Rated w/speed	12,5m/s	12,5m/s
Cut in w/speed	3,2m/s	2,8m/s
Rotor diameter	1,2m	1,2m
No. of blades	6	12
Type of blade	Aerofoil	Aerofoil
Tower top weight	23kg/50lbs	23kg/50lbs
Lateral thrust	400N	300N
Speed control	Self stalling	Self stalling
Regulator inc.	600W	300W
Standard Vdc	12, 24, 36, 48	12, 24, 36, 48
Protection	IP55	IP32

Designed and manufactured in South Africa

Note: Specifications may vary with continuing development and innovation

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