



## Kestrel600

### Full Axial Flux Discoid Technology

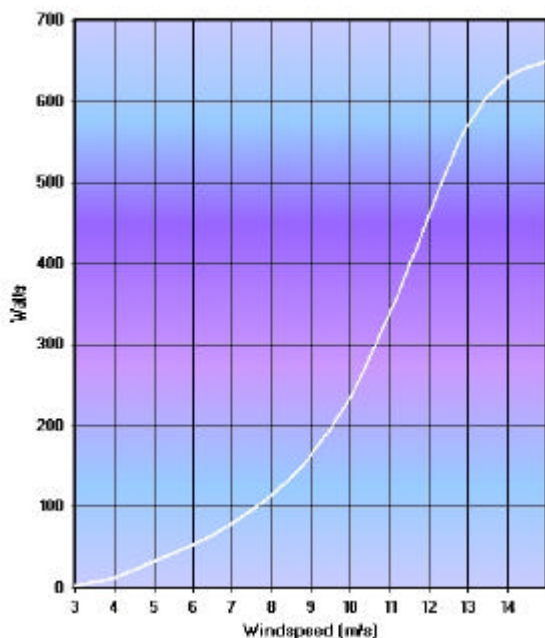
### The new Kestrel600 with proven 240mm Generator And step generation

The new Kestrel600 produces a powerful but very quite 600 Watts on windy sites from a unique six-blade turbine and upgraded motor.

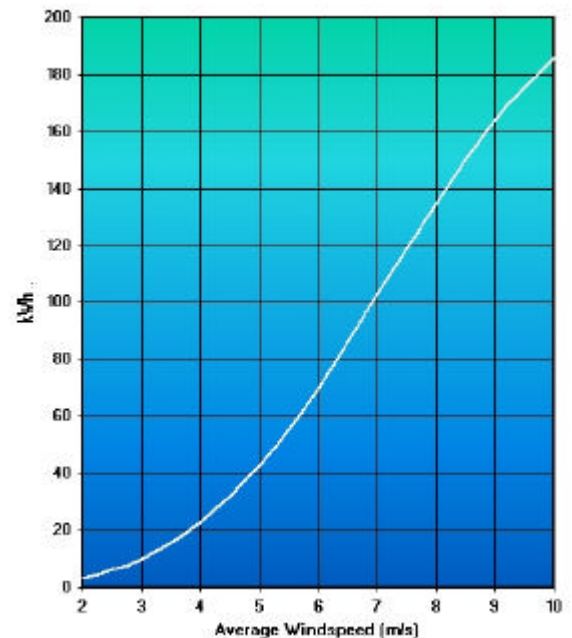
- Affordable electricity from the wind all year round
- Saves on fuel costs and replaces noisy generators
- Boost solar panel installations with hybrid generation
- Quite and reliable long life design
- Small wind farm installations
- Full technical assistance and backup



*Kestrel 600 INSTANTANEOUS POWER*



*Kestrel 600 MONTHLY ENERGY*



The Kestrel600 can produce a maximum power of 650 Watt. This is more than 50 Amp of charging current into a 12V battery system. The Monthly Energy Graph shows what a Kestrel600 can harvest from different annual average windspeeds. Actual results can vary with factors such as wind distribution, topology, tower height and altitude.

## Kestrel600 Wind Turbine Generator

## Data Schedule

Rated Output	600W	500W at 12.5m/s
Rated Wind Speed	13.5m/s	For Rated Output (Sea Level)
Rated Rotational Speed	800rpm	Turbine rpm for Rated Output
Cut in Windspeed	2.5m/s	Windspeed for Charging Output
Rotor Swing Diameter	1.5m	Diameter of Swept Area
Number of Blades	6	Optimised Upwind 6 Blade Design
Blade Type	Aerofoil	Full Aerofoil moulded Glassfibre
Lateral Thrust	300N	Horizontal Force Vector
Passive Speed Control	120km/h	Self stalling Blade
Active Speed Control		Continuous Electronic Loading
Tower Top Mass	21kg	Total Turbine Mass
Protection	IP55	Protected from Moisture and Dust
Generator Type	PM 6ph	Polyphase Brushless Permanent Magnet
Output Voltage	DC	Manufactured for 12, 24, 36, 48Vdc
Utility Intertie	No	Suitable for Stand-alone Systems
Resistance Heating	YES	Micro Systems, Incubators etc.
Water Pumping	NO	
Estimated Monthly Energy	22kWh	Capacity Factor (CF) of 10% and 4m/s
Warranty	1 Year	Conditional Warranty
Routine Maintenance	Visual	Periodic Visual Inspection

## Regulator Options

**Shunt Regulator:** The Kestrel600 Shunt Regulator maintains a constant charging voltage at all times. An internal jumper programmes the output voltage.

A shunt regulator is dynamic in operation and absorbs all of the unwanted energy during charging. No switching between the battery and load resistor occurs and the unit will float a battery and supply the load at all times.

**Dump Regulator:** The Kestrel600 Dump Regulator disconnects from the battery at final voltage. An internal jumper programmes the output voltage.

A dump regulator transfers the turbine output from the battery to a resistor when the user terminal voltage is achieved. The regulator exhibits zero transfer switching time with no disturbance. In addition a user programmable timer facilitates a delay of 30s, 1min or 2min that eliminates on/off cycling.

Wiring for both types of regulators is simple - two wires IN from the turbine and two wires OUT to the battery.



KestrelL Regulators  
comply with EMC  
requirements