



Electricity from wind power is relatively cheap. With the understanding of renewable energy sources increasing dramatically in recent years this has become an acknowledged fact. Compared to solar and other alternative energy sources, electricity generated from wind power is highly competitive.

In the absence of connectivity to the national electricity grid or applications, which require a mains independent power supply, the wind turbine generator and combined battery charger provide a meaningful alternative and cost effective solution.

Wind turbines are also playing an increasingly vital role in providing eco-friendly electricity and in water pumping applications. Rural communities can greatly benefit from small scale systems, which is especially true for Africa and developing countries around the world.



These were some of the underlying factors leading to the development of the Kestrel600, the ultimate in reliable small Wind Turbine Generator design. Simple, robust, industrial like, with formidable performance rating; low start up wind speed and maximum efficiency at minimal turbine revolutions; capable of withstanding the rigors of Africa.

One of the distinguishing features of the Kestrel is the generator, a multipole polyphase permanent magnet axial flux alternator, which delivers power via high quality slip rings. Other noteworthy characteristics are the exceptionally smooth and quiet running of the turbine under extreme conditions, low speed charging and minimal transmission losses. The Kestrel is a highly efficient converter of wind energy with battery charging starting at wind speeds of around 3m/s.

The Controller/Regulator is available in two versions. One uses dump regulation the other electronic shunt regulation to control the turbine output, thereby ensuring optimum charging of storage batteries. This also contributes to a considerably extended battery life.

With wind power rapidly becoming one of the most desirable alternative energy sources world-wide the Kestrel600, which can produce several times the power of comparably priced solar panels, is offering the ultimate low cost solution. Working at only 20% of its rating, the turbine generates over 2.8 kWh per day, enough energy to recharge two flat 100 Ah batteries to full capacity in less than 24 hours.

With maintenance free all year round performance the Kestrel is perfect for all land based applications. As a DC source or combined with an inverter to supply 230 Vac, the system is ideal for rural schools, clinics, community halls, farms, camp and project sites, radio repeaters, telemetry systems, weather stations, etc.

Typical applications include: Battery charging stations, lighting, illuminating advertising bill boards, power supply for cellular base stations, radio, TV, VCR, DSTV, computers, PA systems, amplifiers, security and surveillance systems, transceivers, radiophones, high site repeaters, satellite and other telecommunication applications, telemetry, vaccine fridges, small appliances, water pumping, and much more.

With the ever increasing worldwide demand for small wind turbine generators, more powerful and highly efficient turbines have recently been added to the Kestrel range: Kestrel800 (800 Watt) – Kestrel1000 (1000 Watt) – Kestrel2500 (2500 Watt).

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