

QUIRK'S

POWER PLANTS

BRUSHLESS

WIND DRIVEN

SUCCESSFULLY
TROUBLE FREE
IN ANTARCTICA
FOR THE
PAST DECADE

TIME TESTED AND PROVEN FEATURES

- * Rugged Construction
- * Grease packed sealed ballraces on all rotating parts
- * Slow speed aerofoil section propeller blades for efficient low wind performance
- * Totally enclosed Brushless generator
- * Five year operation without service or maintenance
- * Solid state voltage regulator controls voltage to close tolerance and prevents overcharging of Batteries
- * 50 years experience in design and manufacture of wind driven plants.
- * Current available direct from generator when Batteries fully charged.



- * WITH SOLID STATE DIOTRAN VOLTAGE CONTROL AND AUTOMATIC VARIABLE PITCH PROPELLER

YEARS AHEAD IN DESIGN!

WESTWIND POWER INC.

2405 ONGMAN ROAD BOX 2328 (604) 564-4471 Telex 047-8679
PRINCE GEORGE, B.C.

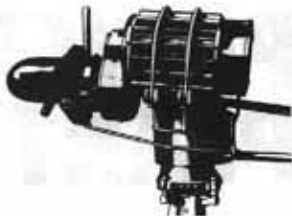
QUIRK'S

Brushless

Wind Driven **POWER PLANTS**

GIVE YOU THESE

EXCLUSIVE QUALITY FEATURES



1. The rectifying diodes and output terminals are mounted in a sealed compartment at end of generator giving easy access with complete protection.
2. The solid state voltage regulator is an encapsulated unit and is not affected by dust, humidity, or salt conditions. Provision is made for adjusting the voltage setting by 15% of nominated value. A Voltmeter and Ammeter of moving coil type are fitted to the control unit.
3. As there are no vibrating points, brushes, or commutator in the unit, radio interference is eliminated.
4. Current is transferred from the generator through slip rings, enclosed in the turntable section, to a weather shrouded terminal strip at the base. Double collector brushes are fitted to ensure good contact surface.
5. Plants are designed to withstand wind speeds of 140 m.p.h. and will commence to charge in a 6-8 m.p.h. wind and deliver maximum output in a 25 m.p.h. wind.
6. All rotating parts are mounted on sealed, grease-packed ballbearings, ensuring long life and freedom from maintenance worries.
7. An adjustable tower cap is supplied to ensure that the plant is perfectly level when installed.
8. Standard machine can be supplied in a voltage range of 2KV-11KV with an output capacity of 2 K.W. Other voltages and capacities can be supplied on request.
9. Quirk's exclusive automatic three-blade variable-pitch propeller. Simple, massively constructed, with blade arms mounted on sealed ball bearings. Completely weather proofed and in accordance with Quirk's practice, does not require lubrication for five years. All blades feather in the wind, thus reducing strain on plant and tower and preventing excess speed of generator.
10. Galvanised steel propeller blades of true aerofoil section for maximum power. Three blades for perfect balance and efficiency.

11. Centrifugal governor weights mounted directly to blades, no link motion to wear or get out of adjustment.
12. Powerful "Ferodo" lined full circle brake for stopping plant. Simple, easy adjusted link motion gives positive, easy control from ground.
13. Heavy duty shaft and bearing carry propeller and large helical cut gear wheel. Quirk's is geared for reasons of economy to the user. The gear, immersed in oil bath, turns the generator to deliver maximum output at a speed of only 750 r.p.m. Propeller speed of only 190 r.p.m.
14. Quirk's brushless generator is a brushless three-phase multi-pole alternator with silicon full wave rectifying diodes to give a steady D.C. supply with minimum ripple factor. The alternator is of totally enclosed construction and is not affected by dust or moisture. All windings are tropic proofed.



End view of generator with cover removed showing diodes and output terminals.

Stub Towers from 10' available to mount on top of wooden tripods, buildings etc. Complete towers available from 30' height. Special house lighting batteries supplied in all voltages, fully charged or dry with separate acid and instructions for charging.

Nett weight _____ 495 lbs.
Packed weight _____ 680 lbs.
Cubic Feet packed _____ 23-1/5

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