

# DUNLITE

## BRUSHLESS WIND DRIVEN

## POWER PLANTS

### 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
- \* 40 years experience in design and manufacture of wind driven plants

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

## YEARS AHEAD IN DESIGN!

DUNLITE ELECTRICAL CO. PTY. LTD. 21-27 FROME ST. ADELAIDE S.A.

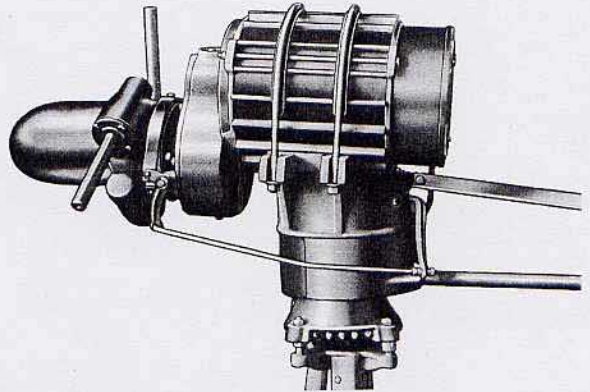
DEPENDABLE

# DUNLITE

*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. Standard plants are designed to withstand wind speeds of 80 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. Specially designed units can be supplied where wind conditions exceed 80 m.p.h.
6. All rotating parts are mounted on sealed, grease-packed ballraces, 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 24V-110V with an output capacity of 2 K.W. Other voltages and capacities can be supplied on request.
9. DUNLITE 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 DUNLITE practice, does not require lubrication for five years. All blades feather in the wind, thus reducing strain on plant and tower and preventing excess speeds 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. DUNLITE 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 150 r.p.m.
14. DUNLITE 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.

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

Manufactured by—

**DUNLITE ELECTRICAL CO. PTY. LTD., 21-27 FROME STREET, ADELAIDE, SOUTH AUSTRALIA**

Distributed by—

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