

## PROPELLOR

Eight feet diameter correct aerfoil section made from imported kiln dried maple. This is impregnated and treated to withstand weather conditions. It is mounted on a large diameter bronze hub with an aluminium cover plate on the front.

## RELAY

This is of the differential type, i.e., working on the difference of the generator voltage above or below that of the battery. This is far superior to the car type cut-outs. The unit is mounted on a polished Zelemite panel, the relays being mounted under a glass bowl. An ammeter is fitted in the top of the aluminium case, and a shield is fitted for protecting the terminals.

## RADIO INTERFERENCE SUPPRESSOR

This is fitted with fuse and mounted in a water proof portion of the head assembly.

## FINISH

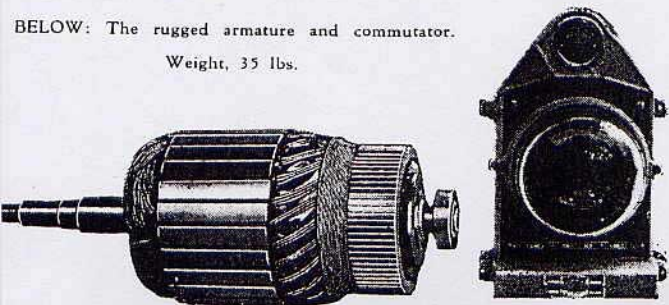
All parts are enamelled before and after assembly, thus preventing rusting between surfaces.

## ENGINE PLANTS

Dunlite can be installed and the engine plant kept as a standby, thereby saving the heavy cost of kerosene, oil, petrol, and engine maintenance. Dunlite can be installed without the slightest alteration to existing engine plant installation.

RIGHT: The attractive reverse current relay and ammeter.

BELOW: The rugged armature and commutator.  
Weight, 35 lbs.



# Free Electricity

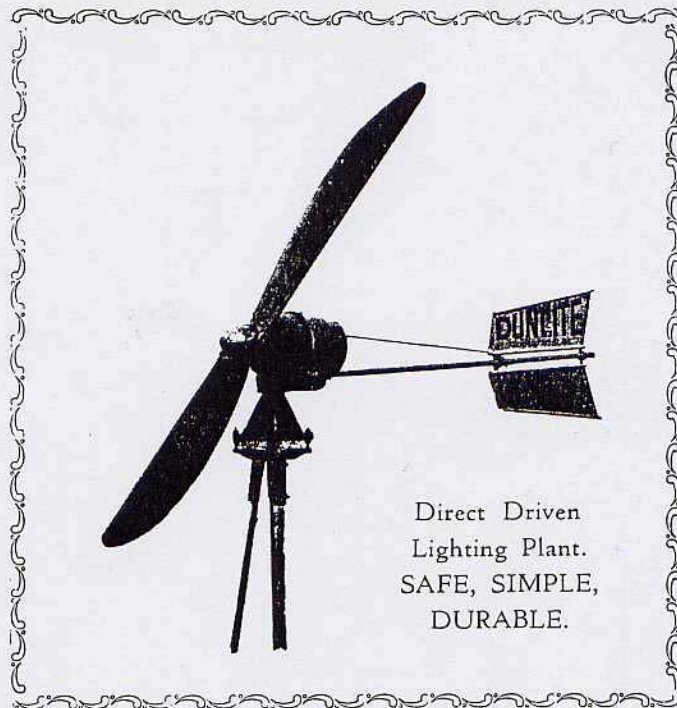
## USE NATURE'S GIFT

LIGHT YOUR HOME OR FARM FREE!

# The DUNLITE

### Wind-Driven ELECTRIC LIGHTING PLANT

Brings the City Comforts to Your Home.



Direct Driven  
Lighting Plant.  
SAFE, SIMPLE,  
DURABLE.

Low Installation Cost . . . Fully Guaranteed

## HEAD ASSEMBLY.

**Head Casting.**—The Head Casting (1) is supported on a hollow steel stem by grease packed adjustable taper roller bearings. These are totally enclosed and dust and weather proof.

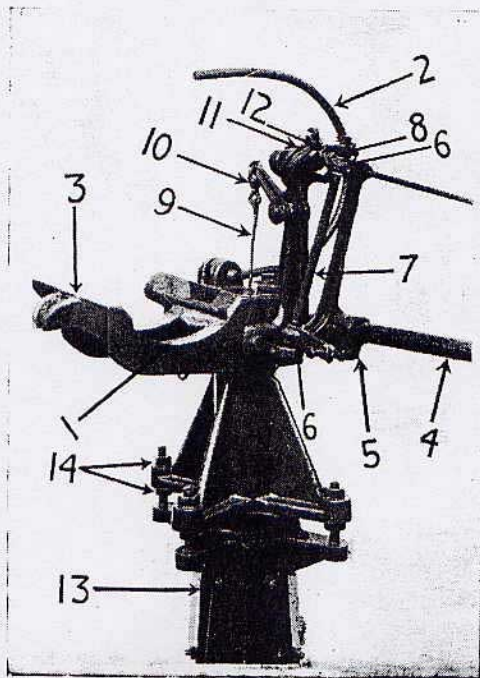
The Generator sits on an offset cradle (1) and is held in position by a large U-bolt (2). The field pole screws on the generator fit in slots in the cradle (3), and prevent any possibility of the generator moving.

**Tail.**—Gravity controlled, and consists of a tubular bar (4) with the tail wing mounted on one end, the other end being clamped in a steel bracket (5). This bracket is fitted with graphite lubricated brushes (6), which work on a vertical steel pin (7). The angle of this pin can be easily varied by moving the top arm (8) in the slot provided. This adjustment provides the means of regulating the charging rate. All brackets on the tail supports are of malleable steel.

**Furling.**—Accomplished from the ground by means of a wire (9) which passes through the hollow steel stem, and fastens on to a swivel (10) attached to a bell crank (11). The bell-crank pulls directly on to a tail through a short length of chain (12).

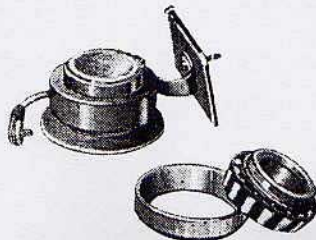
**Tower Cap.**—The head assembly is fixed to the tower by means of the tower cap (13). This has four arms with studs attached, and by means of double nuts (14) the plant can be levelled independent of the tower.

**Electrical Pick-Up.**—Effected by means of a contact, mounted on a bakelite plate on the head casting working on a bakelite mounted ring on the base. The whole being water proof.



LEFT: Close-up of head assembly with generator removed. Refer to text above.

BELOW: Large pick-up brush and ring which is shrouded by head casting. Also large Timken roller race. Two of these are used in the head assembly.



# SPECIFICATIONS:

## GENERATOR

Totally Enclosed.

Dust and Water Proof.

Ball Races.

Heavy duty type, mounted in ribbed cast iron end plates, and are arranged to take thrust and radial loads. Packed with a correct grease that will last for years without renewing.

Field System.

Special alloy steel for maximum efficiency.

Armature.

Large diameter laminations, accurately ground, finished and mounted on heavy axle shaft.

Commutator.

5 inch diameter of best copper strip, heavily mica insulated, and having a very large wearing surface.

Brush Arms.

Arranged that they cannot touch or damage the commutator when the brushes wear down. The brush plate is easily adjustable and removable.

Terminals.

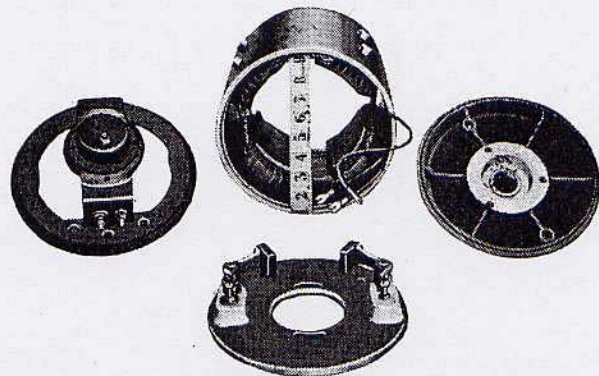
Fitted on end plate, under the cover band, and are thus protected from the weather. Lead wire enters generator through rubber bushing, and is easily connected by removing cover.

Windings.

Heavily insulated and are hard baked in a special electric oven.

Testing.

All generators are subjected to an overload voltage and amperage test.



THE GENERATOR Casing and End Plates. Note the rugged construction and accessibility.