



# FORGEN

WIND DRIVEN GENERATOR

Marine  
Leisure  
Communications  
Professional  
Scientific



# Power from the Wind

- ✓ Low wind speed vertical axis charger
- ✓ Easy fixing to masts, rails, etc
- ✓ Safe and silent in operation
- ✓ Non blade design for user safety
- ✓ No twisting of connecting cable
- ✓ No maintenance required
- ✓ Sealed bearings
- ✓ Corrosion resistant components
- ✓ Electrical circuit fully protected
- ✓ Solid state rectifier

# FORGEN

## WIND DRIVEN GENERATOR

The FORGEN wind driven generator embodies long established, high efficiency generator principles, combined with turbine airflow expertise. Low inertia of the carefully balanced all aluminium rotor assembly enables the maximum advantage to be taken of average weather conditions.

The two machines in the range, the FORGEN 500 and the FORGEN 1000 can produce in an average 15 knot wind speed either 12 or 30 watts in a 24 hour period (depending on battery condition). The design of the machines is such that in extreme wind conditions the turbine is self regulating. The electronic circuitry is also internally protected against overload, neither machine requires an external regulator to be fitted.

The turbine drive of the permanent magnet generator is widely acknowledged as the most efficient design and when mounted vertically it takes advantage of wind from any direction. All electrical components are encapsulated and the unit is virtually maintenance free especially as there are no slip rings. The outlet supply cable to the battery cannot become entangled. As there are no separate blades, the output unit is vibration free and silent in operation.

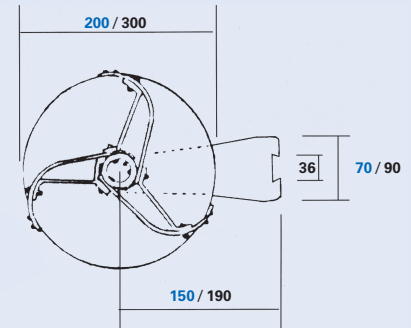
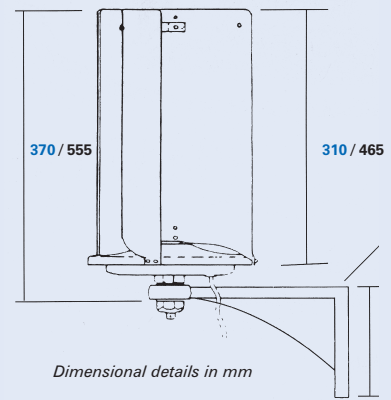
The FORGEN 500 is designed as a professional trickle charger with up to 20 Amp/Hr in a 24 hr. period. The machine should be permanently connected to the battery. The FORGEN 500 can be operated with up to 150Amp/Hr of batteries. The FORGEN 1000 gives a higher charge (up to 60 Amp/Hr in a 24 hr. period) and has been designed for larger multiple battery installations up to 350 Amp/Hr usually associated with boats over 35ft in length.

The use of a FORGEN ensures easy start up after overnight or week long mooring of sailing craft. Parked caravans, electric fence units, sea buoys or other remotely situated electronic equipment are also typical uses for the FORGEN especially in situations where total reliability and durability is required.

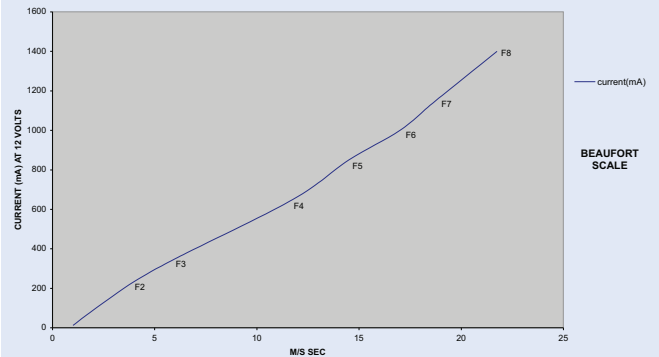
It is well known that batteries have a much longer working life when maintained in a fully charged condition and even a small charge current will help prevent battery deterioration. The generator circuit is designed so that the battery cannot be overcharged and is self adjusting for 12 or 24 volt batteries.



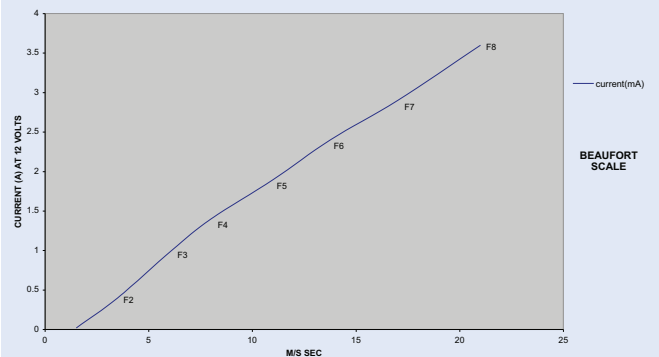
### TECHNICAL SPECIFICATIONS



TEST RESULTS FOR FORGEN 500 NT



TEST RESULTS FOR FORGEN 1000 NT



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