

# The Rutland 503 Windcharger

*Free and abundant wind power keeps  
your batteries topped up and ready to start....*



Rutland Windchargers simply convert the free and abundant power in the wind to power stored in your batteries. The 12V power is ready to use for engine starting, lights, coolers, essential navigation equipment and other low energy appliances. With a Rutland 503 installed on board weekend sailors will experience the convenience of fully charged batteries for engine starting.



The Rutland 503 Windcharger is ideal for trickle charging on board.

**Rutland Windchargers** are a popular sight in marinas, thousands are in use worldwide and boat owners like their particularly quiet operation coupled with clean, aerodynamic lines. Without doubt the unique Rutland alternator design accumulates more energy than any other comparable wind generators available and you'll always see a Rutland spinning in the lightest of breezes!

**The Rutland 503** model's "safety turbine" makes it ideal for trickle charging on board where space is at a premium. Weekend yachts and sailboats up to 10m benefit from it's compact size and charging capacity in particular where batteries up to 100 Ah are in regular use.

**Motor home and touring caravan owners** will find the Rutland 503 conveniently portable and ideal for topping up the battery when parked.

## ***When you fit a Rutland Windcharger on board you will experience:***

- Direct savings on fuel costs and engine maintenance owing to reduced engine running time
- Security of power for essential appliances on-board, eg. navigation equipment
- Fully charged batteries for engine starting on returning to your boat.

*.....and don't forget that by keeping your battery trickle charged its life will be extended too!*

## **Rutland 503 Windchargers are also found on:**

- Inland boats
- Motor Cruisers
- Caravans
- Motor homes

Modern, durable materials for reliability on the high seas accompany the very high manufacturing standards employed in our ISO9002 certified factory.



Rutland 503 keeping a motor cruiser's battery topped up and ready to start.

## **Solar Power too!**

Windchargers are complemented by solar panels for power generation. Hybrid systems offer a reliable solution for providing a balanced supply of power throughout the seasons and to take advantage of the various climates around the world. To discuss your power requirements call Marlec, we have been active in renewable energy since 1979 and our expert advice is second to none.

## Features & Benefits

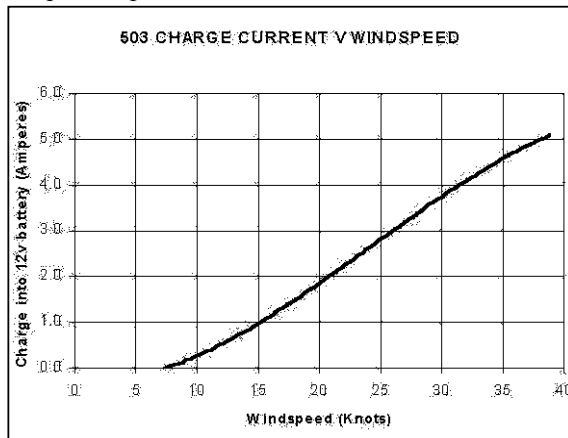
- Efficient power conversion – Rutland Windchargers generate greater ampere-hours in real wind conditions than turbines of equal and often larger diameter! That's because between gusts, our unique high inertia alternator designs maintain momentum with a flywheel effect where other units stall. This adds up to more free power generated and stored for you.
- Rutland Windchargers are the lowest cost per watt of power generated. Not only is the generator efficient but volume production for our worldwide customers and in-house manufacturing here at Marlec ensures that we deliver a consistently high quality at an affordable cost.
- Our low friction 3-phase alternator gives a smooth and silent output. The low wind speed start up means power is almost continuously produced and certainly in the most typical conditions as well as being powerful in higher winds.
- Rutland 503 turbines are made from computer designed efficient aerofoil blades whose tips are joined by an outer protective ring.
- No radiated interference. Complies with EEC Directive 89/336/EEC



Rutland Windchargers are renowned for their quiet and continuous operation.

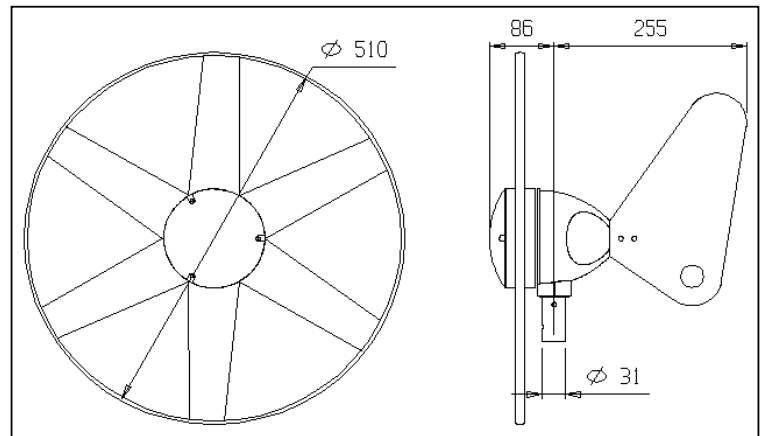
## Specifications:

### Output Graph:



**Low wind speed start up of just 5 Knots. Generates 25W @ 19 knots, 6W @ 10 knots and up to 80W.**

### Dimensions:



**Net Weight: 3.5Kg Gross Weight: 6Kg  
Packing Specifications: 550x550x260mm  
Part No: CA-05/02 (12V)**

## What else is needed to complete a system?

**Marine Mounting Kit** – a stainless steel mounting kit with deck bracket and guy fasteners (guys not included) is available or a mount may be constructed using a tube of 31mm internal diameter (max external diameter 37mm). Short sections of tube to affix to users own pole are also available.

**Land Tower & Rigging Kit** – a 4m tower made of 2 sections, ground spike and rigging kit for temporary land installation. Ideal for motor home & caravan users.

**Voltage Controller** – a choice of HRS503 Regulator to avoid overcharge or the HRDX Controller with digital display, dual charging facility and inputs for both windcharger and solar panel up to 100W.

**Cable** – for installations using less than a 20m run of cable we recommend 2.5mm<sup>2</sup> cable, available from Marlec.

**Batteries** – Deep cycle or leisure batteries are recommended. Gel and Absorbed Glass Matt ranges are available from Marlec.

**For expert system advice and to discuss your power requirements call our technical sales team.**



Manufactured in the UK by:

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