

Rutland FM910-4 Furlmatic Windcharger

for free power, wherever you want it!

Rutland Windchargers are without doubt one of the most unique and versatile battery chargers in use throughout the world.

The Rutland FM910-4 combines our proven furling tail system and latest 3 phase generator technology with a new aerodynamically shaped body style. This combination of the established and the modern means that our customers can be sure of great power performance and reliability over many years service. Primarily designed for land based applications, the Rutland Furlmatic has been used worldwide to provide year round power generation.



Technical Features and Benefits

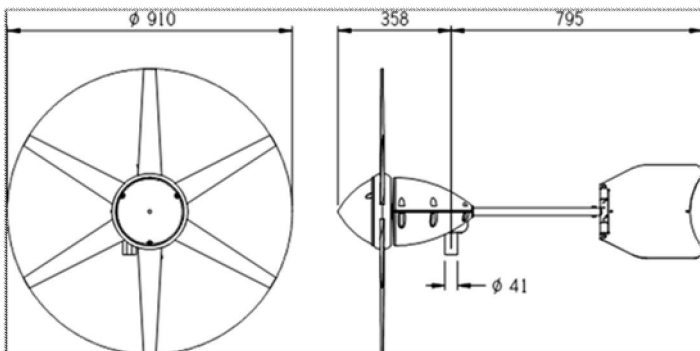


A low energy remote power site where a grid connection would otherwise cost thousands of pounds

- Efficient power conversion
- Rutland Windchargers generate greater ampere hours in real wind conditions than turbines of equal and often larger diameter! This is because our unique high inertia alternator designs maintain momentum between gusts unlike other designs that stall and have to rebuild up speed. This Rutland “flywheel” action results in more free power generated into your battery.
- Rutland Windchargers are the lowest cost per watt of power generated owing to our many in-house manufacturing efficiencies and volume of production for our worldwide customers
- More ampere hours are generated because of the Rutlands’ low wind speeds start up (of just 2.6 m/s) so power is being generated in the most typical wind speeds as well as being powerful in the strong winds
- Automatic ‘furling’ tail fin directs turbine out of wind above 16 m/s for gale protection
- Our low friction 3 phase alternators give a smooth and silent output
- Computer designed efficient aerofoil blades. The fine profile blades have a positive one-way-only fit that have been tested to withstand a loading with a safety factor 10 times the turbine’s maximum rpm.
- EEC directive 89/336/EEC compliance ensures no radiated interference
- Automatic thermostat protection in prolonged gales
- Modern, durable materials for excellent reliability and product longevity,

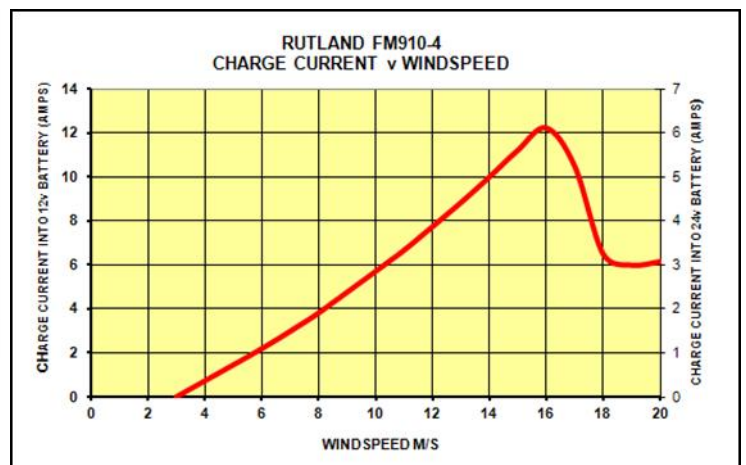
Part Nos: CA-02/04 (12) CA-02/05 (24V)

Technical Specifications



Packed Dimensions: 945x344x262mm

Packed Weight: 16kg Net Weight: 13.1kg



Accessories for Up and Running

MOUNTING POLE

Mounting pole for land based systems – the FM910-4 can be installed on land using a 6m length of 48mm outside diameter tube with 41 mm internal diameter. The mounting pole can be fixed into the ground or on pivot type base for simpler raising and lowering. A minimum height of 6m and of 4 guy wires is recommended. More details are given in the installation manual. A Land Tower and Rigging kit is available from Marlec.

VOLTAGE CONTROLLER

Choose from our two Pulse Width Modulation charge regulators. Both models progressively slow down the turbine when the batteries become full thus reducing long term wear and tear to the turbine. *Note that voltage regulators should always be sited < 1.5m of the battery to minimise voltage losses, ensuring accuracy of regulation.*

HRSi Regulator

Single battery bank over voltage
Regulation with LED indicators for charging status and battery voltage.



HRDi Controller

Easy to use controller for charging up to 2 separate battery banks plus a solar panel input rated up to 160W. Full LED display reading charge currents and battery voltages.



BATTERIES

Deep cycle batteries should always be used for wind & solar charging. A good quality range of sealed AGM (absorbed glass matt) and gel batteries are available from Omni Instruments Ltd.

CABLE & CONNECTORS

Cable thicknesses are determined by the run of cable distance. For cable runs up to 20m/60ft 2.5mm² or 13AWG cable is recommended to maximise electrical efficiencies.

SOLAR PANELS

Solar panels are a perfect complement to wind power, talk to Omni about our ranges of professional photovoltaic panels to give a seasonal balance of power to your remote monitoring system.

INVERTERS

Inverters convert battery power to 230V for appliances such as laptops, TV's etc. Contact Omni to discover the range available.



Manufactured in the UK

Tried and Tested Applications

- Telecommunications at isolated location
 - Remote broadband connections
 - Roadside safety signs (see picture)
 - Environmental monitoring e.g. water, air etc.
 - Land based navigation lighting and radio equipment
- these and many other applications where grid power is unavailable.

Marlec Wind and Solar systems provide a reliable, cost effective and environmentally sound solution. Call us today to achieve the best technical solution for your power needs.

For pricing or any further information, please contact Omni Instruments Ltd.