



# Wind turbine controller 12v

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All Rutland windcharger controllers include LED's for simple indication of the system's operation and a shutdown switch, advanced models include LCD's to indicate battery voltage, charge current and other features.

View the HRDi digital display at a convenient location such as a chart table on board. Using the push buttons select the screens available, change settings and shutdown the charge sources; wind turbine and solar panels.

As peak voltages are reached the input charge from the wind & solar chargers is tapered, gradually reducing from bulk charging to float stage level. This feature gradually reduces the speed of the turbine to an eventual "idle" thus extending the working life of the windcharger. As the battery discharges the wind turbine responds by increasing speed to deliver more power. Solar power is also tapered in the same way.

This feature ensures that batteries are optimally charged, especially when unattended. Multi-stage charge control delivers appropriate charge levels required to ensure your batteries get the maximum power they are able to retain and remain float charged ready for use.

Hot and cold ambient temperatures affect battery voltages. This feature ensures maximum charging efficiency wherever you are in the world. Voltage settings @ 25°C for nominal 12V and 24V are: Float Voltage: 13.8V / 27.6V Bulk Voltage: 14.4V / 28.8V

This avoids conflict with other charging sources to the same battery eg engine charging Solar panels must be fitted with appropriately rated diodes to prevent reverse current when shaded

This waterproof 300W 12V wind charge controller is designed to charge lead acid batteries using energy generated from wind turbines. The controller seamlessly converts AC three-phase output from a wind generator into DC output. This is then ready for charging a 12V battery or a battery bank.

This wind charge controller has with advanced dual safety protection. Its aim is to protect both the battery and the wind turbine itself. So, this happens through the intelligent automatic braking function. When the battery is full, it stops and protects the battery from overcharging. Automatic braking also helps to prevent damage to the wind turbine when there are high wind speeds.

The fully waterproof casing (IP67 rating) ensures that this wind controller is suitable for outdoor mounting. The unit also features LED indicators to show the current mode. In addition there is the system connection status and rotation speed of the wind generator.

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