

How noisy are Rutland Windchargers?

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Marlec Engineering are a long-established manufacturer of wind turbines and accessories, providing renewable energy products into the market since 1978.

Our Rutland Windchargers are designed for ease of installation, reliability and ability to start charging batteries at a low windspeed. One of the most important characteristics of our range is their extremely quiet operation.

Our engineers wanted to answer a simple question: "Can people hear extra noise when this wind turbine is running?"

To find out, they measured the sound level when the turbine (Rutland FM910-4) was operating and then measured the sound level again with the turbine stopped, while keeping all other conditions as similar as possible.

The average noise level with the turbine running was **58.07 dB**, while the background noise without the turbine was **57.76 dB**. That's a difference of only **0.31 dB**, which is extremely small and generally not noticeable to the human ear.

For context:

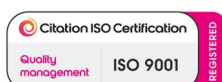
- Around **60 dB** is normal conversation.
- Around **84 dB** is typical busy road traffic.

Because the noise readings were almost identical whether the turbine was running or not, our engineers concluded that the turbine's sound is effectively masked by the normal background noise already present at the site.

"The turbine is so quiet relative to the surrounding environment that its noise cannot be distinguished from the normal background noise measured at the location

In conclusion, our engineers found **no evidence that the Rutland Windcharger created a significant or noticeable noise impact on the test site.**

This is an important feature of our Rutland range. Many of our wind turbines are installed on a boat or yacht for long term cruising, where the crew are staying onboard for several days. The Rutland range are always highlighted by customers as being extremely quiet in operation. Rutland Windchargers installed on land-based applications such as remote buildings or running road infrastructure where the operating noise is low, ensuring the surrounding environment is not disturbed.



Details of our noise testing can be viewed below:

