OUR CUSTOM CHARGE CONTROLLERS FOR SMALL AND MEDIUM TURBINES

At Flower Turbines, we are proud to introduce our innovative low-background operational consumption charge controllers, specifically designed for small and medium turbines in low wind settings.

Key Features:

- Versatile Battery Compatibility: Easily switch between 12V and 24V systems, and choose between lead-acid or lithium batteries with just an internal switch. (We will set it for your system at the factory. You can open up the device and flick a switch to toggle these settings, but recommend that it be done by an electrician.)

- Integrated Braking Control: Built-in braking control ensures optimal turbine safety, even in high wind conditions.

- Voltage Boosting Capability: Offers limited voltage boosting, enhancing performance in fluctuating wind environments.

- 15-Ampere Fuse for Safety: An integrated fuse provides essential protection, ensuring durability and safe operation.

- The controller “wakes up” when there is sufficient wind for charging, usually at 3-4 meters per second, so there is minimal draw from the battery when not charging. This makes long term attachment possible, although we recommend checking the battery every month and filling its charge to make sure it doesn’t deplete. There is also minimal draw from the energy produced during operation. (Note that the turbine will start spinning at lower wind speeds, but there is a point at which the voltage becomes sufficient for charging.)

Our custom controllers offer flexibility, safety, and efficient performance, making them a perfect match for our turbines.

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Important information about applications, as these are only used for certain products:

- Survival Unit: Because of minimal battery depletion from the controller, this enables the unit to be stored in a garage for a long period of time without use. We still recommend that the battery be checked and recharged if necessary every month. This controller enables you to get a minor benefit from moderate winds, so that you can operate it when sitting outside (with all safety precautions). Note that the small size of the blades means that the charging will only be sufficient in most cases for small uses like recharging a monitor, LED flashlight, or phone. Left out overnight in a situation of high winds, it is possible to have several hundred watts available in the morning.

- Flower Power: These units are often put in situations of low wind, surrounded by property walls and trees blocking solar production, so the wind combined with solar will usually be sufficient to power an LED light for decoration.

- Off-grid use with multiple turbines, one controller for each turbine.