


wind/solar hybrid charge controller

The Wind/Solar Hybrid Charge Controller offers an intelligent solution for controlling wind turbines and solar modules. This high-end device ensures the safe and efficient control and charging of your batteries by combining wind generators and solar modules. With simple operation and integrated protection functions, the controller offers high efficiency and low no-load losses and increases the service life and stability of the entire system, especially the batteries.

Special Features:

- **power relay:** Improves the life of the controller.
- **Microprocessor controlled charging:** Integrated voltage and current limitation.
- **Electromagnetic brake control:** Automatic, gentle braking of the generator when the battery is full.
- **Comprehensive protection:** Overcharge, deep discharge, short circuit, overload and reverse polarity protection.

Product Information:

- **Wind generator input:** Supports the connection of a wind generator.
- **Solar panel input (up to 600W):** Enables the use of solar energy.
- **Operating voltage:** System designed for 24V.
- **Reverse polarity protection:** At the battery and solar panel connection.
- **Reverse current protection:** Prevents reverse current in the solar system at night.
- **Soft turbine brake:** Protects through gentle braking.
- **Handbrake:** Manual control of the turbine.
- **Status display:** Two LED lights for system status and warnings.
- **Battery voltage monitoring:** For easy reading of the voltage.

This hybrid charge controller is the ideal solution for sustainable energy projects that rely on wind and solar energy.

Technical Specifications	12V Battery	24V Battery	48V Battery
Minimum voltage for controller start	6,0V	12,5V	24,5V
voltage for starting charging the battery	14,8V	28,5V	58,5V
voltage for end of battery charge	17,5V	17,5V	-
minimum voltage for battery detection	6,0V	Not specified	Not specified
Maximum input voltage	60,0V	60,0V	60,0V
Recommended wiring for battery	6 mm ²	6 mm ²	4 mm ²
Maximum distance to the battery system	3 m	3 m	3 m
Maximum charging current	40A	40A	35A
Maximum speed of the turbine	2500 U / min	1500 U / min	1200 U / min
Maximum power of the wind turbine	800w	1000w	2000w
Maximum power of the solar input	600w	600w	600w
Recommended minimum battery	12V / 100Ah	24V / 100Ah	Not specified
Internal Backup	50A	4x12V/100A	50A / 40A

