



WindMax Wind & Solar Hybrid Charge Controller 12v and 24v Models

I. Introduction

This multifunctional Hybrid Solar/Wind controller combines the functions of AC to DC rectifier, load control and dump load control for wind and/or solar systems. It eliminates the need for separate rectifier, solar charge controller and wind turbine controller. It is the most cost effective solution for renewable energy systems.

Features

- ✓ **High Reliability:** Extra large heat sink and efficient ventilation design ensure reliable and efficient operation.
- ✓ **Great for hybrid wind/solar system,** hybrid controller can support battery charging from simultaneous wind generator load and solar load combined up to 550w.
- ✓ **Charge Control:** Constant voltage series PWM regulation to provide highly efficient battery charging increase battery capacity and life.
- ✓ **Load control and diversion control:** The controller has over-charge protection, short-circuit protection, pole-confusion protection and automatic dump-load function. It is reliable with a highly efficient, long service life.
- ✓ **Built in "Stop Switch"** to slow or stop wind turbine for maintenance or high winds.

- ✓ Uses advanced technology and automated production to provide exciting new features at a competitive cost.

II. Technical Specifications

Controller Model	WindMax-12V-550W
Rated DC Voltage (V)	12Vdc
Wind/Solar Input Power (W)	400w For wind 150w for solar
Surge Power Peak (W)	600w For wind 225w for solar
Overcharge voltage threshold	14.1 Vdc
Self Consumption	< 10 mA
Operation Ambient temperature	-20°C~50°C
Size (L X W X H) Inch	15" x 7" x 6"

Controller Model	WindMax-24V-750W
Rated DC Voltage (V)	24Vdc
Wind/Solar Input Power (W)	600w For wind 150w for solar
Surge Power Peak (W)	900w For wind 225w for solar
Overcharge voltage threshold	28.2 Vdc
Self Consumption	< 10 mA
Operation Ambient temperature	-20°C~50°C
Size (L X W X H) Inch	15" x 7" x 6"

III. Operation Instructions



- 1 Shift the brake/release switch on front panel to “STOP” position.
2. Open the top cover of controller by removing the screws as shown:



3. Connect the wind generator 3 phase AC output to “WIND” terminal.

4. Connect solar panel output to “SOLAR” terminal . Skip this step if solar panel is not used.
5. Connect battery to "BATTERY" terminal; make sure the positive & negative poles of battery are connected correctly.
5. Shift the brake/release switch on front panel to “ON” position.