

MPPT Wind Turbine Charger

User Manual

Product Images:



Product Description:

The MPPT high-performance charger for wind turbines is a high-performance charger designed for small wind turbine charging systems, especially suitable for wind turbine charging systems up to 600 W. The controller utilizes the MPPT (high power point tracking) control method.

The controller adopts the MPPT (High Power Point Tracking) control method, which ensures that the wind turbine can charge the battery at low wind speed and low rotational speed, and also improves the wind turbine's power generation utilization rate by 15%~20% under the same conditions. Waterproof exterior design meets the requirements for field use. Diversified function design, can be composed of flexible and changeable system, to meet the needs of different customers.

Product Features:

- ✧ Selection of high-quality industrial-grade components to ensure product stability.
- ✧ Perfect electrical protection function, make the system more reliable.
- ✧ Water/dust proof design eliminates damage caused by field use.
- ✧ Voltage and current limiting charging method to ensure that the battery is always in a good state of charge.
- ✧ MPPT power tracking charging mode, more efficient charging from wind turbine energy extraction, low voltage charging.
- ✧ Adopts PWM method to carry out stepless soft unloading, releasing the excess power to protect the battery and safe operation of the wind turbine.
- ✧ High-quality aluminum alloy exterior design, small size, good heat dissipation.

Product Parameter Sheet:

Model	FWC-1224
Voltage Rating	12V/24V
Wind Turbine Rated Power	100W - 600W
Rated Charging Current of Wind Turbine	<input type="checkbox"/> 20A <input type="checkbox"/> 30A
Starting Charge Voltage for Wind Turbines	7V/12V
Protection Methods	Battery overcharge, overload, lightning protection, wind turbine current limitation, automatic braking
Display Mode	Diode indication
Function	MPPT maximum power point tracking mode charging
Unloading Method	PWM stepless noise-free soft unloading method
Operating Temperature & Humidity Range	-20~+60°C/35~85%RH (but no condensation)
Volume / Weight	80*80*22mm / 0.3KG
In order to better serve customers, our company can adjust and configure the parameters according to customer requirements.	

Product Wiring Sequence Hints:

1. The controller leads the red wire to the positive battery terminal.
2. The controller leads the black wire to the negative battery terminal.
3. The controller leads three wires of the same color to the three leads of the wind turbine (in no particular order).