

WTG PWM Water Heating Controller

WTG model Product Characteristics

- ◆ The product is manufactured according the JB/T6939.1-2004 industrial standard and GB/T 19115.1-2003 national standard also with users' technical requirements.
- ◆ Two sets of control systems: PWM constant voltage system and three-phase dump load system.
- ◆ PWM constant voltage control is 120% of the rated power of the wind turbine. In case exceeding of PWM's capacity, the three-phase dump load will automatically start immediately. After 10-20 minutes, the three-phase dump load will stop and the wind turbine will re-start to resume power supply to ensure the safe running of the overall wind turbine generation system.
- ◆ Under the strong or super-strong wind conditions, the controller can conduct constant voltage output to ensure the Water boiler safety running.
- ◆ The three-phase dump load of the controller will automatically start and the Water boiler will stop work when the power grid is off. As soon as the grid power resuming, the controller stops three-phase dump load and the Water boiler will resume work.
- ◆ The inside of the controller is equipped with surge arrester. Contain the over voltage into the wind turbine under the bearable voltage of the equipment or system. On another way, to conduct the strong lightening current into the earth directly to avoid any damage of equipment.
- ◆ The below LED status indication can be found on the front panel: indications of wind turbine, dump load, three-phase dump load delay time, under pressure, grid power and DC output voltage.
- ◆ Voltmeter indication: Indicate the controller DC output voltage.
- ◆ The controller is equipped with emergency stop switch; in case of emergency, press down the emergency stop button in the front panel to cut off all power supply of the controller and the wind turbine will immediately carry out three-phase dump load.
- ◆ The controller is equipped with manual three-phase dump load switch. To using this switch, the wind turbine will carry out three-phase dump load forcibly.

Technical Parameters of the WTG Water Heating Controller

Type	1.5KW	2KW	3KW	5KW	10KW
Wind turbine rated power	1.5KW	2KW	3KW	5KW	10KW
Wind turbine max. power	3KW	4KW	6KW	10KW	20KW
Power supply mode (Optional)	Battery 24Vdc 7Ah-15 Ah				
	Grid 110V/120V/220V/230V 50HZ/60HZ				
Working method	continuous				
Function	Rectifier, control, water heating, charge (Optional)				
WTG start water heating voltage(V)	>200Vdc	>200Vdc	>200Vdc	>300Vdc	>180Vdc
WTG stop water heating voltage(V)	240±2Vdc	240±2Vdc	240±2Vdc	460±2Vdc	245±2Vdc
WTG braking voltage(V)	240±2Vdc	240±2Vdc	240±2Vdc	460±2Vdc	245±2Vdc
Insurance(A)	10A	10A	20A	16A	63A
Work environment temperature	-30-60°C				
Relative humidity	<90% No condensation				
Noise (1m)	<40dB				
Degree of protection	IP20 (Indoor)				
Cooling method	Forced air cooling				
Size of the controller (mm)	490*450*320mm			560*430*320	650*485*330
Weight of the controller	16Kg			19kg	22Kg
Size of the load (mm)				490*450*320	730*420*210
Weight of the load				15kg	19kg

*Above parameter only for reference. Could be custom made to user specifications.



