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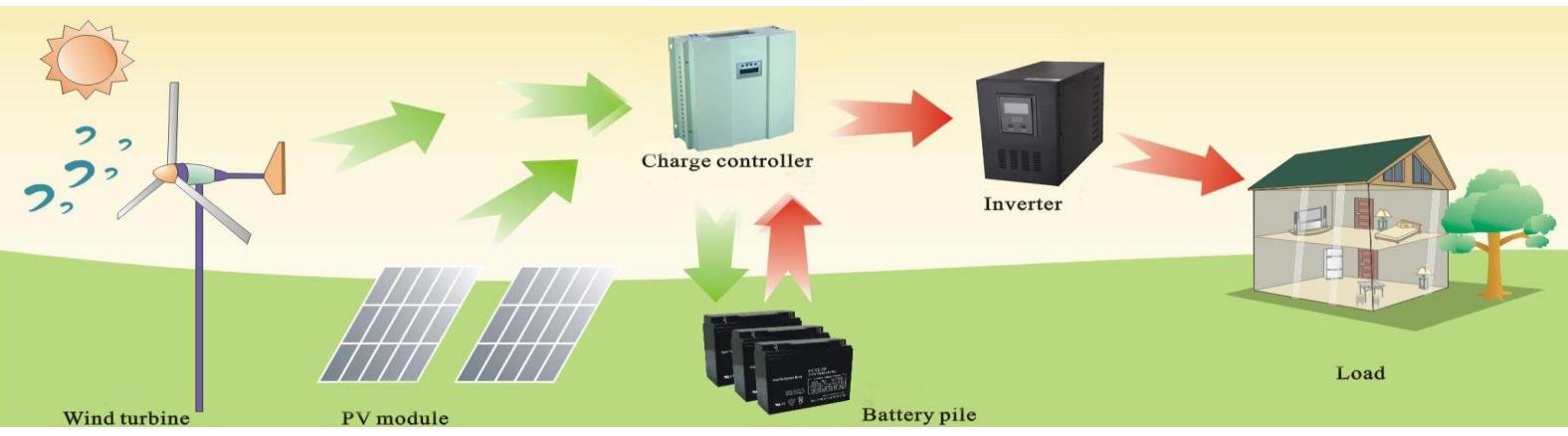


## Performance

- Design for off-grid wind/solar hybrid power system.
- Integrated design of wind controller and solar controller.
- Applicable to different kinds of batteries.
- PWM step-less unload mode, which burn the excess power into dump load, making the battery charging in best status.
- Digital intelligent control, With powerful imported MCU control as the core device .To ensure Simple peripheral circuit Structure, and more flexible and powerful control method and control strategy.
- Modular design with simple structure and easy maintenance.
- LCD display function, visually display wind power , wind voltage , wind current , wind turbine speed ,PV power, PV voltage, PV current , battery voltage , battery power ,charge current .
- Perfect protection function: Solar reverse charge protection, Solar reverse connection protection, Battery overcharge protection, Battery over current protection, Battery reverse connection protection, Open battery protection ,Wind turbine automatic brake and manual brake, thus the system has higher reliability.

## Optional Functions

- Optional temperature compensation function.
- Optional Boost function.
- Optional Buck Function.
- Optional Buck & Boost Function.
- Optional RS232/RS485 to communicate with computer or USB data logging automatically.
- Optional Temperature Compensation Function



## Parameters & Price

Item No.	TGWS15-48
Rated Battery Voltage	48V
Rated Wind Power	1.5kW
Maximum Wind Turbine Input Power	3kW
Rated Solar Power	500W
Max. solar input power	160V
Under voltage (Low)	40.8V(adjustable)
Under voltage recovery voltage (Rlow)	46.5V(adjustable)
Over voltage(Full)	58.8V(adjustable)
Over voltage recovery voltage (RFull)	52.8V(adjustable)
Float voltage (Flot)	54V(adjustable)
Wind dump load rotate speed(Rota)	500RPM(adjustable)
Wind pole logarithm(Pole)	10D(adjustable)
Wind charging range	DC (20-100)V
Wind start charging voltage (CutIn)	20V(adjustable)
Wind dump load voltage(Vmax)	100V(adjustable)
Dump load device	Build-in
Dump load control mode	Over rotate speed limiting, Over voltage limiting, Over current limiting ,PWM
Wind Charging Mode	MPPT(Boost)
Solar Charging Mode	PWM
Display Mode	LCD
Display Parameters	<b>Battery:</b> voltage; charging current; Percentage of battery power. <b>Wind:</b> voltage; charging current; rotate speed; output current; output power <b>Solar:</b> voltage; charging current. <b>System:</b> state; generated energy; error code
Working Temperature & Humidity	-20~+55°C/35~85%RH( Non-condensing )
Quiescent Power Drain	≤3W
Protection Function	<b>Battery:</b> over-discharge protection; over-charge protection; anti-reverse connection. <b>Wind:</b> Over rotate speed protection, over voltage protection, over current protection.
Controller Size (L*W*H)	450 *423*175MM
Package Size (L*W*H)	510*545*250MM
Net Weight	15.5KGS
Gross Weight	17KGS
Optional Function	RS232 RS485 USB data logging Anemometer function