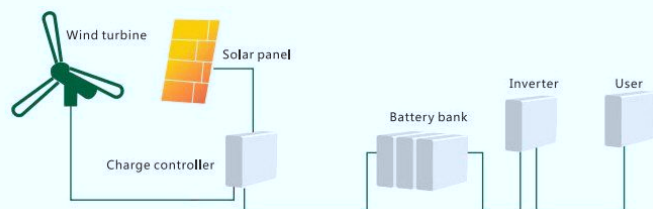


### 400W Marine Solar&Wind Hybrid System



Hybrid system is the best solution for renewable energy on board your vessel. The combination of solar PV power during the daytime combined with 24 hour wind capability optimizes energy production in most weather conditions. Kits are all-inclusive allowing easy installation.

#### How It Works?

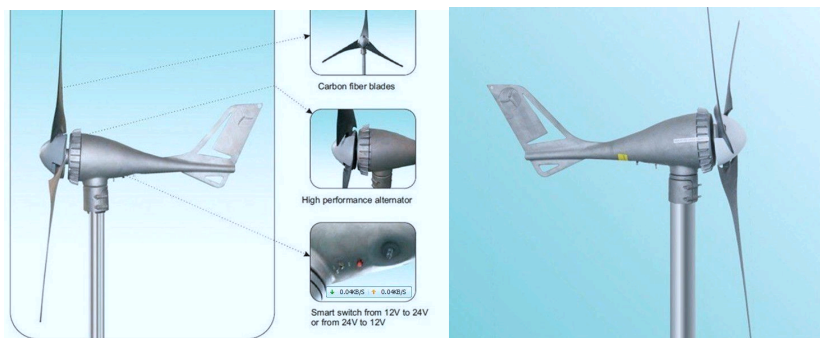


At night or rainy day, wind turbine generate wind power. In sunny day, solar panel generate solar power. In windy and sunny day, both of them generate power

#### What in the package

	<p>60W mono or poly module, Max Power: 60W; Vmp: 17.2V, Imp 3.49A Size: 1766*654*35mm; Tolerance: 0 to +3% Weight: 6KG</p>	<p>2/pcs</p>
	<p>500W 12V/24V solar&amp;wind inverter integrate controller</p>	<p>1 set</p>
	<p>400W wind turbine with 12/24V Rotor Φ1.2M, 3 Blade Start-up wind speed 2.0m/s, rated wind speed 12m/s Size is 690*370*225 for package Weight is 7.6KG</p>	<p>1 set</p>
	<p>ABS material, UV resistance, black/ white color</p>	<p>2 set</p>

## Wind Turbine



### Technical Specifications

Rotor Diameter: 1.2m

Packing: 690\*370\*225mm, Weight: 6KG.

Voltage Available in DC 12V & DC 24V

Start Wind Speed: 2.0m/s, Rated Wind Speed: 12m/s

Survival Wind Speed: 60m/s

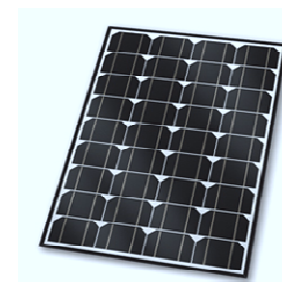
High Speed Control: Hysteresis Braking(Slow Down)

Over Speed Protection: >20m/s Hysteresis Braking(Shut Down)

### Features

1. Full power, light weight, high efficiency, low noise.
2. Carbon fiber blades, high efficiency of anti-wind ability.
3. Blades automatically shut down under strong wind.
4. Single-Phase permanent magnet DC generator
5. Blade Material: Carbon fiber composite/ high-strength nylon composite.  
Die-cast aluminum for shell.

## High Efficiency Solar Panel with 25 years warranty



Solar panel	Size per panel	Weight	Amps/ Hour	Solar cable	Fitting Brackets
2x60	766*654*3 5mm	12KG	6.98	10-20m	ABS, UV resistance



Includes rubber corner protectors for all solar panels sold in our kits. These protectors remove the metal corners and sharp edges so you don't have to worry about injury or sail damage.

Rated Wind Turbine Power	400-500W
Rated Solar Power	120-150W
Rated Battery Voltage	24 V DC
Battery Floating Charge Voltage	30 V DC
Over Voltage Shutoff	34 V DC
Over Voltage Recovery	33 V DC
Under Voltage Shutoff	21 V DC
Under Voltage Recovery	24 V DC
No Load Loss	0.55A
Output Wave Form	Pure Sine Wave
Display Mode	LCD
Display Parameters	Battery Voltage/Current, Status Parameters
Cooling Mode	Fan
Rated Output Voltage	110/120/220/230/240V AC
Wave Distortion	≤4%
Output Frequency	50/60 Hz±0.05Hz
Overload Capacity	120% ,1min 150% 10s
Inverter Efficiency	Maximum 90%
Noise (1m)	≤40dB
Insulating Strength	1500V AC,1 min
Working Altitude	≤4000m
Working Ambient Humidity	0~90%, no condensing



### Super inverter and controller intergrated machine

#### Performance Features:

Perfect protection function, thus the system has higher reliability. LCD display function, visually display battery voltage and charge

current. Integrated design of controller and inverter, with simple structure and easy maintenance.

**Frequency toroidal transformer**, ensures inverter has high efficiency and low no-load loss.

**Pure sine wave output**, compared with square wave or modified wave, has higher efficiency and higher capability of driving load.

**PWM stepless unload mode**, which burn the excess power into dump load, making the battery charging in best status.

**By-pass function**: It will switch to the city grid automatically when the battery is under-voltage or something wrong with the inverter, which ensures the continuity and stability of system.

**Protection Function**: Solar reverse charge protection, Solar reverse connection protection, Battery overcharge protection/ over discharge protection/ reverse connection protection; Wind turbine current limiting. Wind turbine automatic brake and manual brake; Output overload protection; Output short circuit protection; overheating protection.