


## 100W Wind Turbine Specifications

Model Name	IDEAL300	
Model Number	X-300	
Wind turbine type	Horizontal axis, up-wind	
Rotor diameter	900mm	
Net weight	7.8 kg	
Tower diameter	48-50 mm	
Blades number	5	
Blades material	Carbon fiber reinforced plastic	
Blades mass	216g /pcs	
Body material	Aluminum high pressure diecast	
Body construction	Completely one	
Product finish	Clamp-based Thermosetting powder coating	
Tower Connection	bolt-on clamp	
Start up wind speed	1.8 m/s	
cut in wind speed	2.5 m/s	
Survival wind speed	50m/s	
Rated Power	100W (11 m/s)	
Rated Rotor Speed	700 rpm	
Maximum power	300W (16m/s)	
Working Temp. range	from -40°C to 60°C	
Product Life (years)	15	
The sound pressure level	LAeq 33dB @ 5m/s @ 5m behind rotor (an air density of 1,225 kg/m³)	
Generator	Synchronous-type, three-phase power generator with neodymium iron boron magnets	
Rated Output voltage	Off grid 12V or 24V	
Braking system	Electro-magnetic & blade over speed aerodynamic braking system	
Yaw control	360 degree free yaw	
Direction control	Tail tracing	
Control system	Brake mode	
	safty control	
Recommend ed system	Off grid: deep cycle lead acid battery	
<p>Note: At cut-in wind speed, it produces power, but it requires higher wind speed to charge battery or transfer to grid</p>		

CE Certified -European Conformity

EN-61400-2; EN ISO 14121-1 Wind Turbine Safety

EN 60034-1 Rotating electrical machines requirement

EN 61000-6-1;EN 61000-6-3 Electromagnetic Compatibility,immunity for residential,commercial and light industrial environments.

## X-300 Description:

- Silent & Vibration Free
- Light & Compact
- Perfect for Small Appliances

Our products are designed to achieve high standards of quality while being affordable to all. The X300 is one of the most convenient products of our range. We gave particular attention in making this model compact and lightweight while maintaining the same technologies we developed for larger wind turbines. This wind turbine was created to supply energy on the go. If you are planning a boat trip or a weekend in the wild the X300 is the ideal companion.

### 10 Features

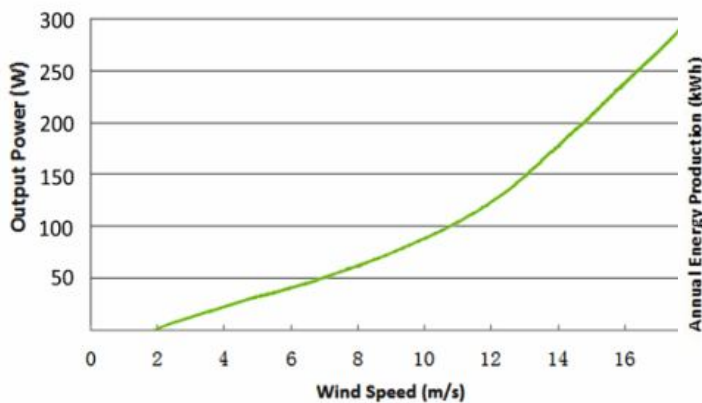
- ※ Low noise & vibration
- ※ Low start-up wind speed
- ※ High efficiency at low wind speed
- ※ 100W rated power
- ※ Lightweight
- ※ Carbon fibre composite blades
- ※ Aerodynamic body design
- ※ Anti-rust, Anticorrosion & Long life span
- ※ Easy install & Maintenance-Free

### Recommended uses

- Small appliances
- Yachting
- Housing and outdoor activities
- Solar wind hybrid system
- Monitoring station

### Output power:

**X-300 Output Power**



**X-300 Annual Energy Production**

