

Helix Wind Turbine



Features:

- ◆ Rich colors: white, orange, yellow, blue, green, mixed, customizable.
- ◆ One-piece Blade design ensures higher rotational stability.
- ◆ Coreless PMG provides lower start torque/wind speed and longer service life.
- ◆ Maximum RPM protection. No higher than 300RPM, regardless of the wind speed.
- ◆ Easy installation, Screw & Play.
- ◆ 48V could be customized.
- ◆ Design service life 10~15 years.

Specifications:

Product name	Helix vertical wind turbine
Started wind speed (m/s)	1.3 m/s
Cut-in wind speed (m/s)	2.5 m/s
Rated Wind speed (m/s)	11 m/s
Safe wind speed (m/s)	Max wind speed: ≤ 40 m/s, The instantaneous maximum wind speed ≤ 45 m/s
Rated voltage (DC)	12/24V
Rated power (W)	100W
Rotor Diameter of Blades (m)	0.52
Blades Height (m)	1.05 (without generator)
Blades quantity	2
Blade material	Glass fiber/carbon fiber/nylon
Generator	3 phase permanent magnet coreless motor(outer rotor) Powder coated aluminium
Control System	Electromagnet
Mount Height (m)	7~12m (9m)
Generator protection grade	IP54
Work environment temperature	VAWT -25~+45°C、 controller -10~+55°C
Work environment humidity	VAWT $\leq 90\%$ 、 Controller and inverter $\leq 80\%$
Altitude:	≤ 4500 m
Product assembly weight (Kg)	22kg
Overspeed protection	Electromagnetic brake
Overload protection	Electromagnetic brake and the unloading unit

Drawing:

