



**V-AiR**

Wherever  
the Wind  
Blows

# **Small Vertical Wind Turbine Catalogue**

**Edition 2022**

[www.visionairwind.com](http://www.visionairwind.com)

Founded in 2008 in NYC, V-AIR has quickly become the world leader in vertical axis wind turbines (VAWTs) with more than 2,000 successful projects in over 100 countries. Our technology allows you to maximize the power generating by potential of wind and gain greater control of your electricity costs.

Together, we envision a world powered by clean energy.

## **ADVANCED TECHNOLOGY MEANS ADVANCED PERFORMANCE**

V-Air's innovative vertical axis wind turbines produce renewable, affordable energy around the world.

We offer an innovative product that is simple, clean, and quiet. Featuring a sleek yet durable design, our efficient turbines are built to last and are ideal to a large range of environments...





# V-AiR Service .....



**SITE EVALUATION**



**SYSTEM DESIGN**



**MANUFACTURE  
& SUPPLY**



**INSTALLATION**



**MAINTENANCE**



V-AIR offers a solution for renewable energy service providers, for private business and government clients who desire to instantly get a positive footprint.

Through our local partners, V-AIR helps you with the installation and the maintenance of the innovative products.

With you from the beginning to the end. We work together to ensure you receive the optimal solution and support.

From site evaluation to ongoing maintenance, V-AIR provides turnkey solutions that enable customers to adequately meet their renewable energy

# V-AiR Products

The modern V-AiR wind turbines are in advanced helical Darrieus design, which is far more efficient than the simpler Savonius VAWT.

Taking the wind from all directions, our unique design allows the turbines to exhibit exceptional performance and excellent durability.

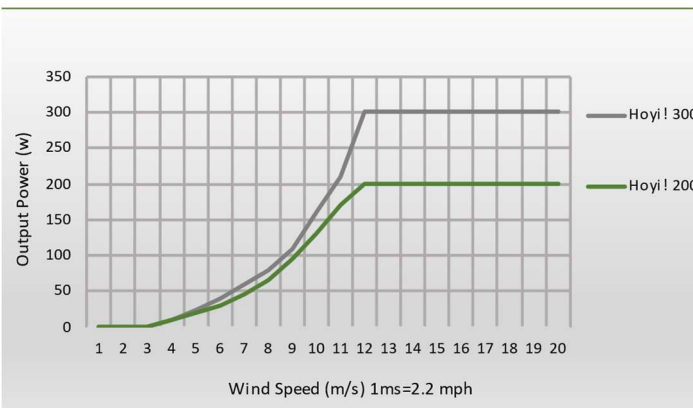


Super versatile and durable, V-AiR's smallest wind turbine is the perfect solution to off-grid power generation. This unit is ideal for street lights, boats, and marine applications, or any location where power needs to be generated on-site.

The HoYi! starts producing renewable energy at extremely low wind speeds and can withstand hurricanes, making it nearly maintenance-free for its entire lifetime.

Physical Information	HoYi! 200	HoYi! 300
<b>Height</b>	1.2m (4 ft)	1.3m (4.6 ft)
<b>Width</b>	0.8m (2.8 ft)	0.8m (2.8 ft)
<b>Weight</b>	39 kg (90.4 lb)	41 kg (108 lb)
<b>Swept Area</b>	0.84m <sup>2</sup> (9.0 ft <sup>2</sup> )	0.91m <sup>2</sup> 9.8 ft <sup>2</sup>
<b>Blade Materials</b>	Fiberglass	Fiberglass

Performance	HoYi! 200	HoYi! 300
<b>Rated Power</b>	200 W	300 W
<b>Rated Wind speed</b>	12m/s (26 mph)	12m/s (26 mph)
<b>Cut-in Wind speed</b>	2 m/s (5.6 mph)	2m/s (5.6 mph)
<b>Cut-out Wind speed</b>	30 m/s (66 mph)	30 m/s (66 mph)
<b>Survival Wind speed</b>	50 m/s (110 mph)	50 m/s (110 mph)
<b>Rated RPM</b>	200 RPM	300 RPM
<b>Noise at 12m/s</b>	40 dB	40 dB



**COMPACT ANSWER  
TO YOUR RENEWABLE  
ENERGY NEEDS**

# V-AiR Products

The latest innovation in wind technology, VisionAIR Models manage the perfect balance between strength and elegance, lightness, and momentum.

Incorporating years of research, VisionAIR Models are the most fully tested and certified turbine's in its class, integrating design which is positively transforming the distributed energy industry, modernizing it to an unparalleled degree.

## VisionAIR<sup>3</sup>

Quiet, yet powerful, it is the ultimate achievement in small wind, allowing our patented technologies to create a powerful system to offset your energy use, whatever the demand may be!

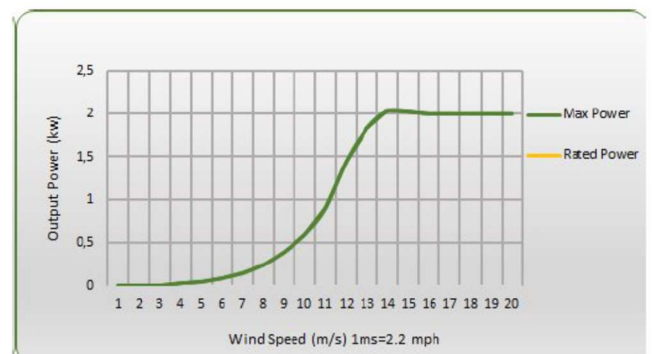
Whether you are eager to send renewable energy to the local grid or to charge a bank of batteries off the grid, the VisionAIR 3 represents an excellent solution for those looking to benefit from the untapped energy of the wind;



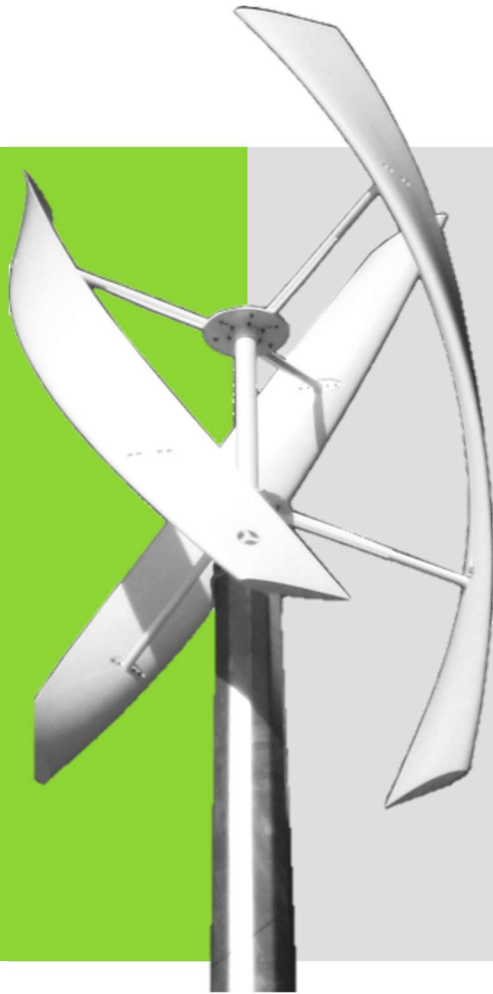
Performance	VisionAIR 3
<b>Rated Power</b>	1.5 kW
<b>Rated Wind speed</b>	12m/s (27 mph)
<b>Cut-in Wind speed</b>	3 m/s (6.7 mph)
<b>Cut-out Wind speed</b>	20 m/s (44 mph)
<b>Survival Wind speed</b>	50 m/s (110 mph)
<b>Rated RPM</b>	200 RPM
<b>Noise at 12m/s</b>	41 dB

Physical Information	VisionAIR 3
<b>Height</b>	3.2 m (10.6 ft)
<b>Width</b>	1.8 m (5.11 ft)
<b>Weight</b>	274 kg (603 lbs)
<b>Swept Area</b>	5.76 m <sup>2</sup> (62 ft <sup>2</sup> )
<b>Blade Materials</b>	Fiberglass

**SILENTLY  
POWERFUL**



# V-AiR Products



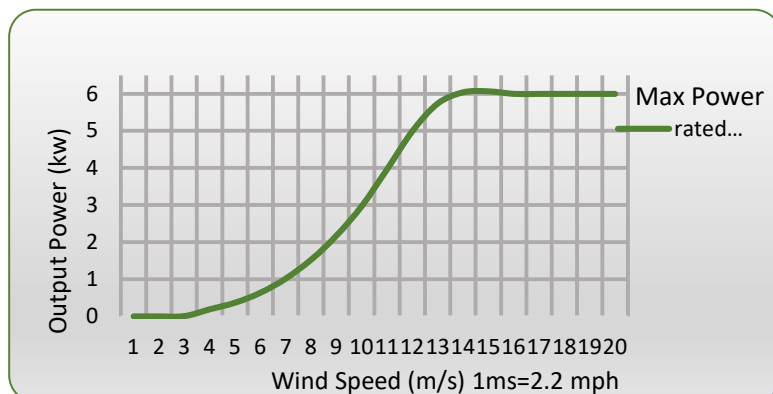
## VisionAIR<sup>5</sup>

Businesses, communities, and institutions can directly benefit from V-AIR's quiet, elegant, and efficient design for their larger energy projects. This powerful turbine generates energy at low wind speed and captures wind from any direction.

Standing at a height of 5 meters, the VisionAIR 5 produces an impressive environmental statement while offsetting your energy costs.

Physical Information	VisionAIR 5
<b>Height</b>	5.2 m (17.1 ft)
<b>Width</b>	3.2 m (10.6 ft)
<b>Weight</b>	756 kg (1655 lbs)
<b>Swept Area</b>	16.6 m <sup>2</sup> (179 ft <sup>2</sup> )
<b>Blade Materials</b>	Fiberglass

Performance	VisionAIR 5
<b>Rated Power</b>	5 kW
<b>Rated Wind speed</b>	12m/s (27 mph)
<b>Cut-in Wind speed</b>	3.2 m/s (7.46 mph)
<b>Cut-out Wind speed</b>	20 m/s (44 mph)
<b>Survival Wind speed</b>	50 m/s (110 mph)
<b>Rated RPM</b>	130 RPM
<b>Noise at 12m/s</b>	38.7 dB



**OUR MOST  
POWERFUL  
WIND TURBINE**

# V-AiR Turbine systems

## Grid Tie Inverter

V-AIR uses ABB grid-tie solar inverters associated with Voltsys wind controllers. Voltsys controllers override the MPPT tracking in the ABB solar inverters. The controller stores the wind turbine power curve and properly manages the inverter.

### SPECIFICATIONS:

Models: Designed to work with VisionAIR 3 and VisionAIR 5

Max. DC Input Voltage: 600V

Rated Grid Frequency: 50 or 60 Hz

Inverter in accordance with European and USA network standards

Electrical Configuration: Grid-tie

Monitoring Capabilities

Operating Temperature: -25 to 60°C



## Automatic Safety Brake



### SPECIFICATIONS:

V-AIR has designed its ASB with an industrial PLC to meet the braking conditions of the wind turbine with double detection system:

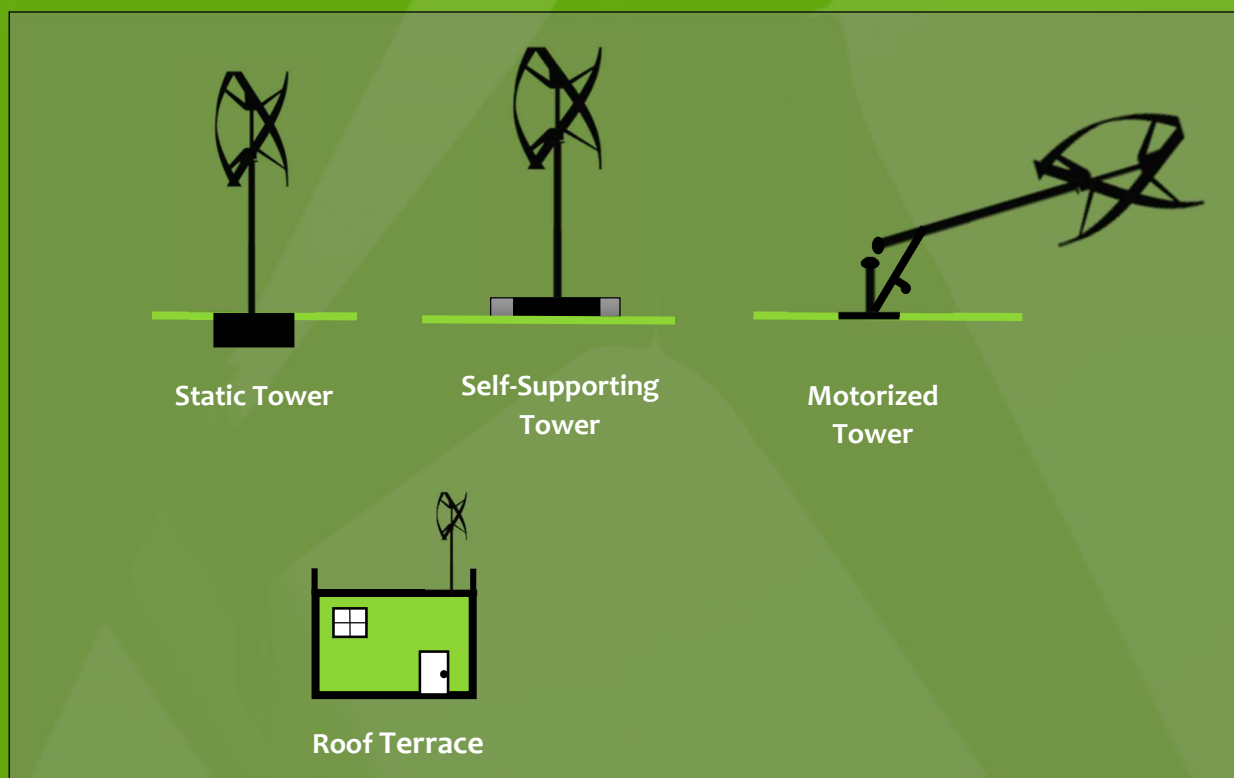
- detection of the rotation frequency
- wind speed detection

And a double braking:

- induced current brake
- electromagnetic brake



# V-AiR Tower systems



Towers are available in different sizes:

- 2m , 7m and 10m for HoYi! models
- 4m, 10m and 18m for VisionAIR models

## V-AiR Price list extract from the general rate 2020

	HoYi! 200	HoYi! 300	VisionAIR 3	VisionAIR 5
<b>Wind Turbine</b>	\$ 3640	\$ 4180	\$ 11010	\$ 29990
<b>Wind pack Electronics *</b>	\$ 1690	\$ 1690	\$ 5540	\$ 6310

Shipping: Prices for wind turbines are Incoterm FOB China.

Shipping: Prices for electronics are incoterm DAP

- Wind pack includes:
  - For HoYi! : wind converter and off grid inverter/charger (batteries are not included)
  - For VisionAir : ASB, controller, dump load and grid tie single phase inverter





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