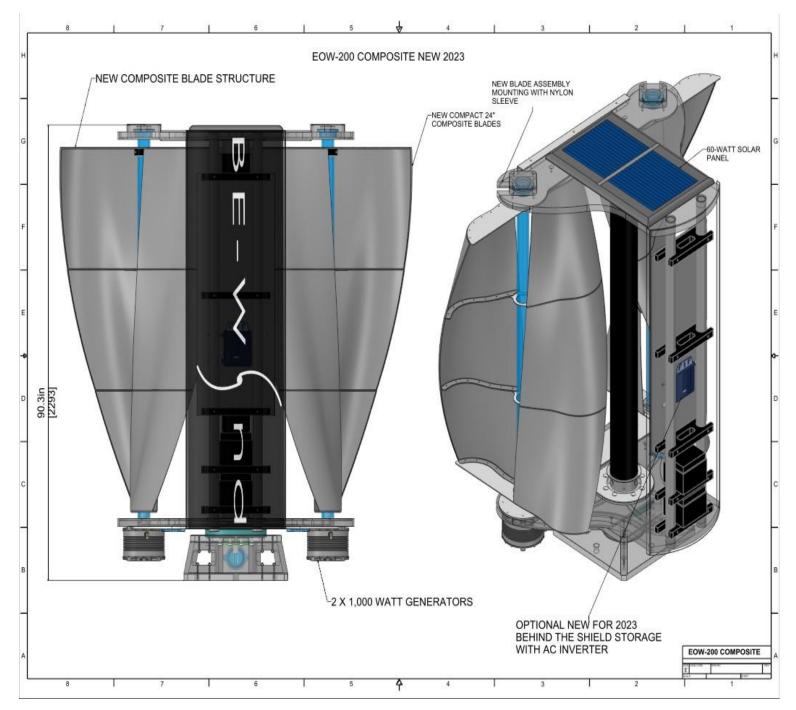


## **BE-WIND EOW-200 COMPOSITE SERIES TURBINE.**

#### **TECHNICAL ASPECTS.**



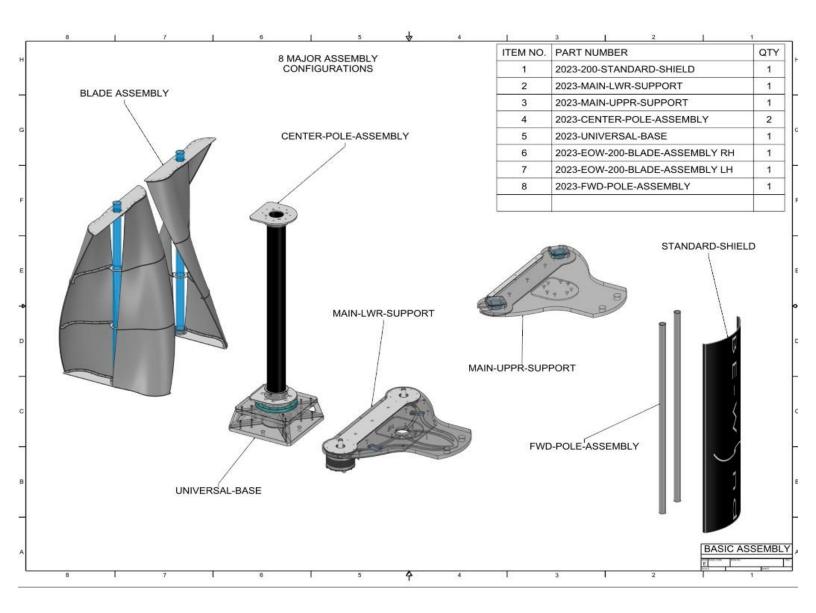
The EOW-200 series turbine is the flagship design by BE-WIND. Manufactured with HDPE ST structural marine grade plastic for the main Base and Top structures, The mounting and slew bearing attachment known as the universal base assembly.

The blades and Front shield are composed of Resin transfer Carbon fiber material With inlay of E-glass for support.

The Center structural pole assembly is composed of Carbon fiber filament wound to .375" thick and supported on either end by an aluminum 6061 T-6 collar.

The EOW-200 was designed for Medium Urban power requirements or small micro grid technology Focused Basically on production of energy to be stored in a battery system. Then converted to an on-grid application thru a Hybrid Inverter / charger supporting North American energy standards. 110/220 single phase.

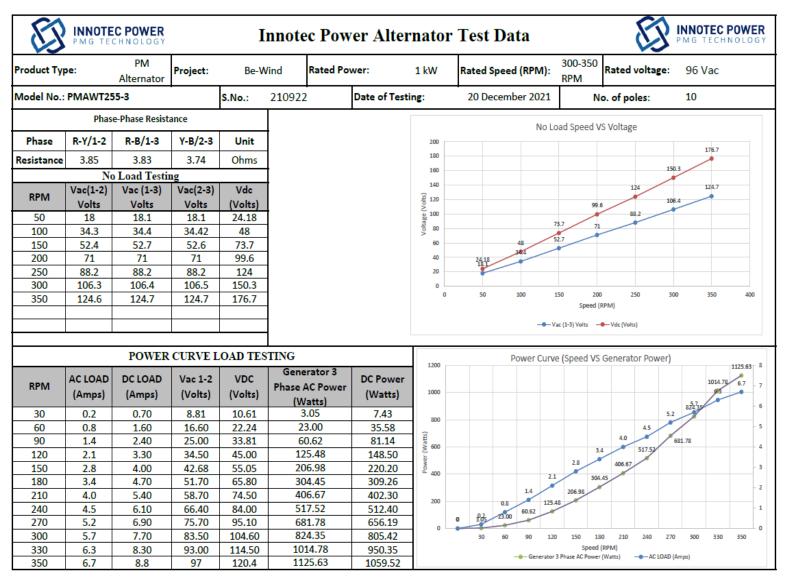
The system is also designed for areas of Max winds of 50 m/s, with built in RPM restriction of 400 RPM at 20 m/s



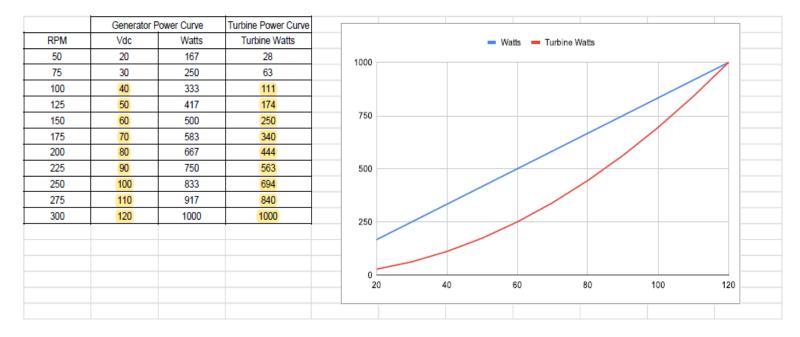
### **Technical Data**

#### EOW-200

TYPE:	Dual Helical Savonius VWAT
Swept Area:	1.0 Meters x 2
Rotor Dimension:	1.0 m wide x 1.8m tall
Overall Height:	2.2 Meters / 88"
Weight:	260 Kg / 575 lbs.
Rotor Material:	Carbon Fiber / Composite / Aluminum.
Coatings:	NONE REQUIRED
Start Up Speed:	1.5-2.0 m/s 3-4 Mph.
Power Production Speed:	3 m/s 6.5 Mph. 12 volts 1 amps
Survival Wind Speed:	60 m/s- 65 m/s 130 Mph -145 Mph
Estimate at 14 m/s 3 phase AC:	3 phase 96 VAC @ 10 amps 1 Kw x 2
Generators:	PMG 3 phase VAC 1.0 Kw x 2
Max Rotor Speed:	0-350 rpm
Rated Voltage:	0-96 VAC 3 phase AC
Protection Class:	IP 54
Braking: No Braking Re	quired, (Except for Service: Electrical Brake)
Grid Tie:	110-220 VAC, 50-60 Hz
Battery Setup:	24–48-volt charging.
Safety Compliance:	UL1741
Design Life Span:	50 Years +
Operating Temperature:	-20 Deg. C to 60 Deg. C
<b>Operating Pole Height:</b>	3.5 meters (12 Ft.) 6.0 meters (20 Ft.)
Warranty:	5 Years Standard 10 Year Service Contract.



#### **Power Curve Programing Data:**



# **PRODUCT IMAGE:**

