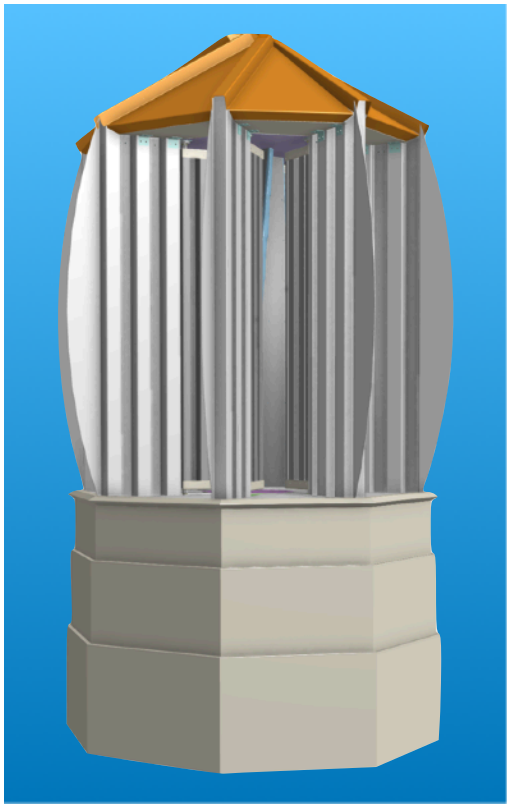
Wind Cupola Series

CP-01000 Micro Wind Energy System

Rooftop or Ground Mounted Resilient Power.

Ships easily, deploys quickly, lasts for decades, neighbor friendly.



Wind Cupola System

Infrastructure in a Box

A source of low-cost power for residences, farms, and marinas.

Use to complement battery storage, grid and solar power.

Simple to install wind energy structure ships fully assembled, wired, and tested.

Designed to produce approximately 5kWh daily typical min*. (Larger sizes available upon request)

Hardened construction: Survives austere conditions and extreme weather events.

Patented (US 10,495,063).

Construction

- Wind energy enclosure comprised of durable powder coated aluminum enclosure with high performance, polymeric geomembrane rotor.
- Prewired charge controller, Li Ion battery storage, and external power connections.
- Pre assembled, wired and tested; ready for installation.

Technology Summary

Revolutionary Approach To Wind Energy Capture
The sails of the CP Wind Energy System intercept the wind, create a vortex and focus its energy in a chamber at the center of the enclosure.

The fortified, hidden-in-plain-sight stationary structure harvests wind from all directions. Does not need to be pointed into wind.

70 year design life. Survives 200mph winds.

Produces 2x power of typical alternative energy technology.

Silent, stationary, no shadow flicker, people and wildlife friendly. Blends in with built-environment.

Dynamic Chamber
At the center of our enclosure is a chamber housing the rotor. The chamber dynamically changes size and shape responding to ambient wind speed and direction, optimizing air flow and power production.

Easy Deployment
Ground or roof mounted. No tower or foundation, connect with solar arrays.

Next Generation Rotor
Our revolutionary, lightweight high performance rotor starts at lower wind speeds, stable at high wind speeds

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Minimum Maintenance
All units are designed to operate in extreme and harsh environments with minimal maintenance.

Deployment, operation and maintenance training included.

10-year warranty and optional Investment Protection Program extended warranty and service / maintenance program.

Proudly 100% Made in the US.

Company Information

CAGE CODE	8HFH9
UEI	W7MYFTTHZJP7
Web Address	www.cbcwindenergy.com

Model Information

Model No.	CP-01000-A: On Grid CP-01000-B: Off Grid CP-01000-C: Grid as Backup
Design Lifetime	70 years
Foundation Type	No foundation required, mount to roof or on ground with optional base.
Orientation	Stationary enclosure
Yaw System	N/A - Dynamic chamber mechanically adapts to changes in wind speed and direction.
Weight	
Noise Level	Silent (0 dB above ambient at 0 ft from equipment.)

Electrical Output

Generator Type and Drivetrain	Permanent magnet generator with synchronous power transmission belt.
Output	Available in 3 configurations: ・Off Grid: 15.5VDC to charge controller for Li Ion batteries. ・On Grid: 120VAC / 60 Hz single phase. ・Grid-As-Backup: 120VAC / 60 Hz single phase with Li Ion battery storage. Order batteries separately.
Battery Storage	Li Ion - Customer configurable, contact factory.

Performance

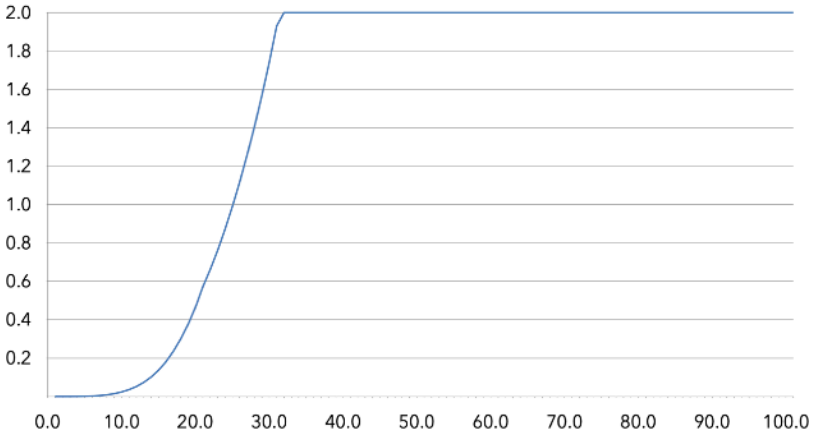
Cut In Wind Speed	5 mph
Cut Out Wind Speed	100 mph
Max Survivable Wind Speed	200 mph
Rated power v. Wind speed	2 kW @ 30mph

Environmental Specifications

Min Temp	-40 F
Max Temp	115 F
Humidity and Corrosion	All materials are non corrosive. Enclosure designed to suffer airborne particulate matter including sand and ice.
Lightning	Lightning rod and electrical surge protection included.

Power Curve

Standard Conditions*

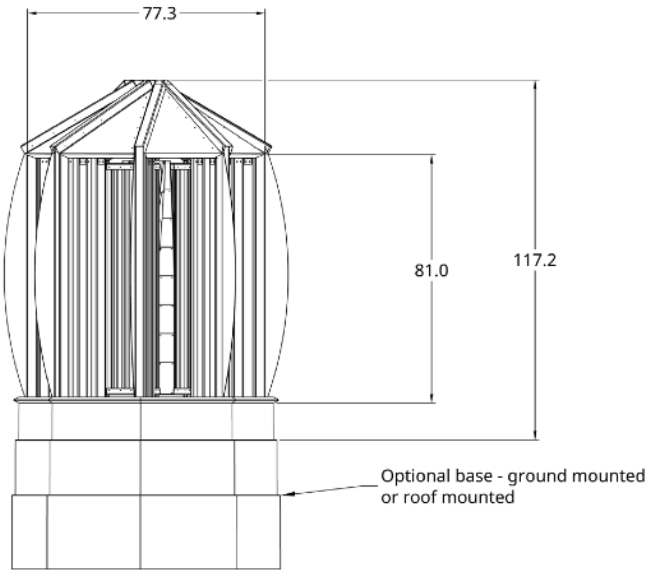


Average Monthly Production

Avg. Annual Wind Speed (mph)	Energy (kWh / mo)
8.0	21
9.0	34
10.0	50
11.0	72
12.0	98
13.0	129
13.5	146

* Standard conditions: air density 1.225 kg/m^3, equivalent to 15°C at sea level.

Dimensions



CBC™ Wind Energy