

**Key Solution Benefits:**

- Energy savings and energy independence
- Public awareness of use of sustainable, cheap energy
- Minimal maintenance
- Eco and animal friendly

**OUR PHILOSOPHY:**

Freedom is at the heart of our values – energy independence and autonomy – a freedom fueled by a resource that never runs out. The wind.

Often the simplest and most elegant solutions are the best. We believe that energy self sufficiency is better than the current antagonistic legacy system in decline. However, progressive change requires courage, creative and positive innovation and unerring focus on performance. This is the soul of the Helix Systems.

WHY HELIX WORKS:

Inexpensive, reliable, simple — the hallmarks of the Helix system make it the best choice for low wind speed residential and commercial applications. The Savonius turbine based design catches wind from all directions creating smooth powerful torque to spin the electric generator. The Helix Systems can be mounted up to 35 feet high, building roof top or on a building side in winds as low as 10 mph to create electricity to power your business or home.

HOW IT WORKS:

As the wind blows the long helical blade scoops catch wind from all directions forcing it through the turbine. The turbine generator is connected directly to your business and as electricity is generated your business is powered. If the wind isn't blowing your business is powered by the energy grid as usual. If the wind is blowing strongly then your energy produced can exceed your energy consumed and, depending on your local utility, your meter can spin backwards rolling back your energy bill.

S594 AND S324 SYSTEMS:

The S594 is a commercial scale system for applications on medium to large size buildings. The S322 is designed for home or smaller commercial applications, and works under conditions that were previously prohibitive. The systems utilize a direct drive permanent magnet generator. Power is sent through a grid tie inverter for use onsite and back into the utility grid for net metering.

OUR PROMISE:

Helix Wind energy systems are designed, engineered and tested at corporate facilities in San Diego, CA. Each component is individually tested to ensure the system performs seamlessly as a whole. Our performance data is from real installed working turbines, not a theoretical power curve created on a computer. Helix Wind selected Waterline Alternative Energies as our New England distributor and installer. Waterline Alternative Energies is committed to green energy solutions and service excellence.

For more information regarding the Helix S594 & S322 System including rebates contact Waterline Alternative Energies:

Call: (603) 474-7477 or email: waesales@waterlineind.com
www.waterlinecompanies.com

A member of the American Wind Energy Association®.

TECHNICAL SPECIFICATIONS FOR MODEL S594	
Rated Capacity	5 kW
Peak Power	5.63 kW
Cut-in Speed	8 mph
Turbine Type	Helical turbine for smooth power production
	Utilizes turbulent omni-directional air instantly, no yaw control required
Rotor Dimensions	16' h x 4' w (4.87 m x 1.2 m)
Rotor Construction	Ultra tough Aluminum Alloy
Material	Rugged aluminum and steel construction for any environment
Weight	1400 lb (635.029 kg)
Axis	Vertical axis helical Savonius rotor
Blade	Modular, 3D blade for easy assembly and toughness
Swept Area	5.88 m ²
Braking	No braking needed for normal operation
Generator	5 kw high efficiency, Ultra reliable low RPM Permanent Magnet Generator
Grid Connection	110 VAC - 240 VAC, 50-60Hz Grid Tied Inverter
Installation	Roof top 2 ft above roof line; Free standing (consult with WAE for installation instructions)
Sound	Design gives almost silent operation at less than 5 decibels above background noise
Patent	Unique patent pending design
Design Life	30 years
Warranty	5 years limited
Wildlife	Completely safe for our friends the birds and bats
Options	Battery charge systems and self-monitoring available
Other	Manual override for maintenance, Aesthetically pleasing

TECHNICAL SPECIFICATIONS FOR MODEL S322	
Rated Capacity	2.5 kW
Peak Power	2.82 kW
Cut-in Speed	8 mph
Turbine Type	Helical turbine for smooth power production
	Utilizes turbulent omni-directional air instantly, no yaw control required
Rotor Dimensions	8.7' h x 4' w (2.64 m x 1.2 m)
Rotor Construction	Ultra tough Aluminum Alloy
Material	Rugged aluminum and steel construction for any environment
Weight	310 lb (140 kg)
Axis	Vertical axis helical Savonius rotor
Blade	Modular, 3D blade for easy assembly and toughness
Swept Area	3.19 m ²
Braking	No braking needed for normal operation
Generator	2.0 kw high efficiency, Ultra reliable low RPM Permanent Magnet Generator
Grid Connection	110 VAC - 240 VAC, 50-60Hz Grid Tied Inverter
Installation	Tower 15ft. depending on obstructions (consult with WAE for installation instructions)
Sound	Design gives almost silent operation at less than 5 decibels above background noise
Patent	Unique patent pending design
Design Life	30 years
Warranty	3 years limited
Wildlife	Completely safe for our friends the birds and bats
Options	Battery charge systems and self-monitoring available
Other	Manual override for maintenance, Aesthetically pleasing

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