



5-Blade High Output 3500W Max. Hybrid Output/3000W Rated/48V WindMax Hybrid Wind Turbine w/Controller, Xantrex XW4548 Inverter, Grid-tie w/backup

Xantrex XW-SCP XW System Control Panel is needed to configure grid tie function, you can order it from our website if you don't have it.

High Output, 3500W Max maximum wind/solar hybrid output, 3000W rated with wind only

Designed with both reliability and performance in mind, WindMax Wind Turbines feature maintenance free design, high reliability and consistent performance. A wind turbine is a long term investment. Before you purchase a wind turbine, the first factor to consider is if the energy produced by a wind turbine can pay for

itself in 10 years or less. In order to achieve this, the wind turbine must be a high quality, reliable, maintenance free wind turbine with excellent performance.

The second factor to consider is installation and ownership cost. Poor reliability, low quality and high maintenance will greatly increase ownership cost and make the wind turbine impossible to pay for itself.

The third factor is environment and safety. A wind turbine should be safe for high winds, quiet and have no vibrations to make it residential/home friendly.

WindMax wind turbines can meet the above requirements and do much more:

- Designed and built by an experienced wind turbine technology R&D team that are committed to innovation and quality.
- CE certified for "Small Wind Turbine with High Reliability".
- ISO certified for "Design, Development and Manufacture of Small Wind Turbines".
- Amazingly quiet operation with little or no vibration. Conforming to the IEC 61400-11 wind turbine standard for Noise Measurement
- Reliable two-moving-part maintenance free design. No problematic furling.
- Fully automatic with blade aerodynamic braking and controller electromagnetic braking.
- WindMax wind turbines will ensure safe operation at high wind. Survival wind speed is up to 134 mph (3 blades models). Old style fiberglass blades make the old style furling based wind turbine a hazard at high wind.
- High efficiency is achieved by matching the design of the generator and blades.
- Patented Blades with twisted aerodynamic design and high efficiency are made using the latest advanced thermoplastic engineering and precision injection molding technology for highest strength, consistency of quality, performance and durability.
- Easy installation, no welding needed. Pole connector provided for standard Schedule 40 2" pipe pole.
- High quality generator design with strong neodymium magnets. Every magnet must go through stringent tests before use !
- The blades are made of high-strength Nylon-fiberglass materials. They are not the hollow fiberglass blades which are dangerous in high wind and need to be replaced in a couple of years.

Patented, ISO certified WindMax H series with 5 blades is the next generation system built with advanced technology, it is light weight and easy to install. It performs much better and much more reliable than older style wind turbines using furling which is the outdated technology.

H35 5-blade wind turbine is designed for low wind conditions under 25 mph to give your higher output than conventional furling based wind turbines.

Rated power (wind turbine only): 3000W

Maximum power : 3500W with wind and solar hybrid

Can be configured as either off-grid or grid-tie applications

Advantages of 5-blade wind turbines over 3-blade wind turbines

1) 5-blade wind turbines will greatly improve annual energy production in low wind conditions. For areas with average wind speeds of 11 MPH (5m/s). If you compare annual energy output to conventional 3-blade wind turbine, there is an increase of annual energy output of more than 60%.

2) 5-blade wind turbines will dramatically improve the reliability and safety in high speed wind conditions. The blade rotation speed of a 5-blade turbine is 60% of the rotational speed for a 3-blade wind turbine. 5-blade wind turbines will greatly reduce chance of overspeed control malfunction. This will ensure operational reliability from a long term perspective.

3) The lower blade rotation speed of 5-blade wind turbine will lower wind turbine noise and make 5-blade wind turbines more community friendly than 3-blade wind turbines.

The wind turbine with mechanical furling overspeed control outputs dramatically lower energy in constantly changing wind and high wind conditions, mechanical furling wind turbines have a narrow working wind speed, recommended maximum working wind speed for mechanical furling wind turbines is up to 30 mph. They are not recommended for constantly changing wind speeds or high wind speed more than 30 mph. YOU NEED THE H- series WIND TURBINE FOR HIGH WIND AREA OR AREAS WITH CONSTANTLY CHANGING WIND SPEEDS. From our customer's feedback, mechanical furling wind turbines work well if the wind speed is mostly constant and from 6.7 mph to 20 mph because the mechanical furling almost always kicks in early and results in low performance for more than 20 mph wind speed.

We want to let customer know the difference between H series and V series and

choose the best wind turbine. H series is built with the best matching, high efficiency blades and maintenance-free design. Commitment to innovation, long time, advanced R&D and patented technology ensure H series to have high efficiency and high energy production.

Old style mechanical furling wind turbines existed for long time and lots of small companies copy the same design over and over without any R&D effort. Our prediction is that mechanical furling based wind turbine will be obsolete in the future because of low efficiency and low quality.

H series wind turbine is designed to provide higher actual energy output in variable wind conditions and high wind conditions, It has two-moving-part maintenance-free design, all major parts are built with stainless steel for long term reliability and patented blades with efficient twisted aerodynamic design are made with Nylon-fiber materials which last much longer than fiber glass blades.

Comparing wind turbine performance using power curve is the most mistake people make. Don't get fooled by the deceiving power curves with high peak power for wind turbines, Instantaneous wind turbine power output (Watt) means NOTHING for wind energy. Accumulated energy production (KWH) is what customers should invest on.

Wind turbine performance should be evaluated by energy production in watt-hours, not peak power, not a single point on the power curve.

The power curve is useful to evaluate performance of wind turbines in high winds, our wind turbine performs well in high wind conditions and produce more energy than most of other "3kw" wind turbines.

The most reliable, most efficient wind turbine with the lowest noise level and Incredible 134 mph (60 m/s) survival speed.

Nylon-Fiber Glass High Efficiency blades is aerodynamically designed to regulate themselves, slowing automatically in high winds.

With a maximum 3500 watt wind/solar hybrid output, the H35 performs more consistently and is much more efficient than the side furling wind turbines and has additional solar/wind hybrid output capability.

The highest output in low wind in its class, superior performance and two-moving-part maintenance free design make H35 wind turbine the most

efficient and most reliable wind turbine in its class.

This results in more energy output in KWH yearly

Our wind turbine is made in modern ISO 9001 certified production facilities. Our Factory is ISO 9001 certified for implementation of quality management system for "DESIGN, DEVELOPMENT AND MANUFACTURING OF SMALL WIND TURBINES". ISO certificate ensures wind turbines to have superior quality and consistent performance.

Low noise level, neighborhood friendly: Pole adjacent noise level is < 55dBA, conforming to IEC 61400-11 wind turbine standard for Noise Measurement.

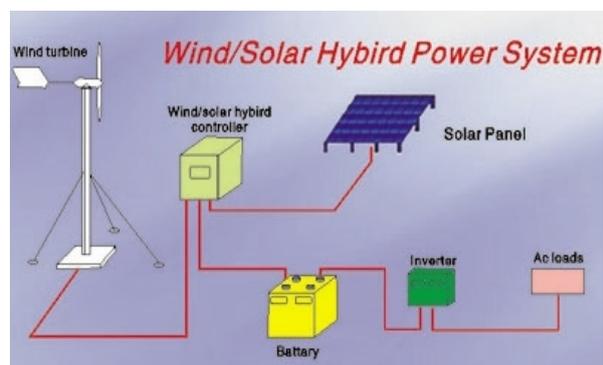
Perfect choice for residential and rural, industrial, RV and marine applications.

Solar/wind hybrid controller with separate Dump loader included

5 Years Limited Warranty

[WINDMAX-H35 system includes generator with slip ring, hub, 5 blades, nose cone, tail, wire connector, stainless steel weld-on Pole Collar, wind/solar hybrid controller, dump loader, and screws/bolts/washers/nuts needed to assemble the wind generator.](#)

WINDMAX-H35 3.5KW Max. Hybrid output system includes generator with slip ring, hub, nose cone, 5 blades, Tail, Stainless Steel Pole Collar Ring, Solar/Wind Hybrid Charge Controller, and Grid-tie/Off-grid Xantrex XW4548 4500w, 48Vdc, 120V/240V AC, 60Hz, split phase Inverter/charger for grid tie or off-grid applications.





Technical Specifications:

Model	WINDMAX-H35
Blade diameter	10.2 Feet (3.1M)
Blade material	glass-fiber, strengthened nylon
Number of Blades	5
Speed-limitation mechanism	Electromagnetic speed limitation and blade over-speed braking
Survival speed	67 mph
Rated speed	12.5 m/s or 28 mph
Start-up Speed	<= 4.47 mph (2 m/s)
Cut-in Speed	<= 6.7 mph (3 m/s)
Rated power (W)	3000W for wind only, 3500w maximum with wind and solar hybrid
Rated voltage (v)	DC48V
Alternator	3 phases Direct Drive PMA
Recommended Tower	Skystream tower, 33 Feet or higher
Tower-top Weight	< 145 LBS

Note: Lightning protection device shown in the picture are not included

Note: Solar panels sold separately

H35 Voltage/Current Testing Data

