

ET 7.5 Three phase, High Voltage Wind Turbine

Wind Turbines:

Wind Turbines from Earth-Tech Energy Systems are second to none when it comes to quality, performance and payback on your investment. Our wind turbines are high voltage, three phase turbines which are three times more powerful than the old standard single phase turbines. That means three times more output and three times faster payback on your investment. We use the highest quality stainless steel components treated with long lasting rust protection and greased using high grade lithium grease which means our turbines are virtually maintenance free. These high efficiency turbines start in lower wind speeds than older style single phase turbines and also perform at their peak in lower wind speeds. Battery back up for emergency power and buffering the system is included with our package, not an option like other grid tie systems. Our wind turbines come standard with a 15 year warranty.

Grid Tie Inverters

Our inverters are manufactured by Xantrex, the leading manufacturer of advanced power electronics for renewable energy. Grid-Interactive renewable energy systems enable you to demonstrate your personal commitment to a renewable energy future. With the Xantrex XW grid-interactive system, backup AC power is made available 24 hours a day in the event of a utility outage, providing reliable power and peace-of-mind. At night, the inverter's automatic power save mode ensures that energy is not wasted by needlessly charging your batteries from the utility grid. An average conversion efficiency of 93% using the California Energy Commission (CEC) test protocol provides greater savings and a shorter time period for system payback.

Controller

Our controller is state of the art and the only controller on the market that is blending the high voltage, high efficiency turbines with solar power. We are proud to be leading the way in hybrid technology. All grid interactive components are UL approved with GFI protection, Island protection and surge protection to meet grid tie requirements.

ET 7.5 WIND TURBINE SPECIFICATIONS

Rotor Diameter	18 Feet
Blade Material / Number of blades	Fiberglass – 3 Blades
Rated Power / Maximum Power	7000 watts
Rated Wind Speed	22 mph
Start Up Wind Speed	5.5 mph
Working Wind Speed	6.5 to 55 mph
Maximum Wind Speed (Survival Speed)	110 mph
Rotator Speed	300 rpm
Working Voltage	DC48V/120V/240V/300V/350V
Generator Style	Three phase, permanent magnet
Charging Method	Constant Voltage, current saving
Speed Regulation Method	Yaw, Auto brake
Weight	780 lbs
Tower height	40 feet
Suggested battery capacity	12 V Deep cycle gel batteries
Lifetime	20 years
Maintenance	None for 5 yrs then grease collar every 5 yrs
Generator Construction	Stainless Steel, lifetime rust protection