The SmartBox Control System incorporates a proprietary control system that is specifically designed to capture the most efficient power from wind at unpredicatable patterns and dynamics. It functions as a sophisticated energy management system and also provides a simple and seamless interconnection to the grid. The WindTronics Wind Turbine and the SmartBox offers cutting-edge turbine technology as the individual, enabling each to harness, utilize and manage the energy at their local wind zone. The Smartbox is the control system that consists of a charge controller and a non-grid tie 1.5 kW inverter. Included within the charge controller is an automatic AC transfer switch that will automatically switch between your AC grid and power generated on the turbine.

A Wind Turbine Like No Other In...

### SmartBox Control System Incorporates:
- Optimal Power Transfer Controller
- True Sin Wave Inverter
- Battery Power Management System
- Wind Direction & Speed Measurement Control System
- Energy Management System
- A sophisticated energy management system and also provides a simple and seamless interconnection to the grid.

### WindTronics Wind Turbine Model Specifications:
- **Power Output:**
  - 2,200 Watts at 38 mph
  - 1,500 Watts at 31 mph
- **Energy Output:**
  - 2,752 kWh/yr maximum
- **Rated Power:**
  - 2250W
- **Cut In Wind Speed:**
  - 2 mph (.89 m/s)
- **Cut Off Wind Speed:**
  - 38 mph (17.0 m/s)
- **Annual CO2 Displacement:**
  - 2.2 Tons
- **Enclosed Blade Tip Power System (BTPS) - Wide Wind Acceptance – Auto Directional**
  - Connects to building, utility or battery charge controller
- **BTPS Model Specifications:**
  - **Curve:**
    - Power (W):
      - 1000, 1250, 1500, 1750, 2000, 2250
    - Wind Speed (mph):
      - 0, 5, 10, 15, 20, 25, 30, 35, 40

### SmartBox Model Specifications:
- **Part Number:**
  - SB6500 230V/60Hz NGT (Non-Grid Tie)
  - SB6500 230V/50Hz NGT (Non-Grid Tie)
  - SB6500 120V/60Hz NGT (Non-Grid Tie)
  - SB6500 120V/50Hz NGT (Non-Grid Tie)
- **Dimensions (All in Meters):**
  - L: 0.52, W: 0.64, H: 0.6
- **Product Dimensions:**
  - Gross weight:
    - SB6500 230V/60Hz NGT: 53.5
    - SB6500 230V/50Hz NGT: 53.5
    - SB6500 120V/60Hz NGT: 53.5
    - SB6500 120V/50Hz NGT: 53.5
- **Weight (All Weights in kgs):**
  - SB6500 230V/60Hz NGT: 26.4
  - SB6500 230V/50Hz NGT: 26.4
  - SB6500 120V/60Hz NGT: 26.4
  - SB6500 120V/50Hz NGT: 26.4
- **Description:**
  - Pole Coupler MPT6500
  - QuadPod™ Ballast Attachment MQP6500-B
  - DC Charge Controller DCCC6500
  - w/ Battery Backup (Grid Tie) OBGTFX3048
  - OutBack™ Inverter 3000W
  - Aurora® Inverter 3.0kW (Grid Tie)
  - BTPS6500 Wind Turbine
- **BTPS6500 Wind Turbine Model Specifications:**
  - **Curve:**
    - Power (W):
      - 1000, 1250, 1500, 1750, 2000, 2250
    - Wind Speed (mph):
      - 0, 5, 10, 15, 20, 25, 30, 35, 40
- **Certifications:**
  - EN61000, CE certification, IEC 61683, IEC 61727, EN50081, CEI 11-20, DK5940, CEI64-8, F.I.T. or net metering.

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Today’s wind energy... like no other.

Introducing a breakthrough wind energy system for home and business

The WindTronics Wind Turbine is a portable wind turbine that measures just 6 feet (1.8 m) and produces on average 1500 kWh per year depending on height and location. The WindTronics Wind Turbine (BTPS) is the patented technology created by WindTronics. The WindTronics Wind Turbine utilizes a system of magnets and stators surrounding its outer ring capturing wind energy. The generator by swiftly passing the blade tip magnets through the copper coil banks rapidly reacts and produces power. The WindTronics Wind Turbine is designed to be installed by a licensed electrician wherever energy is consumed, turning homes and businesses into distributed energy sources, in a cost-effective and efficient manner.

The WindTronics Wind Turbine: At 241 lbs (110 kgs), 6 feet (1.8 m), 35 dB at 10 feet (33 feet (10.0 m) minimum, the higher the better).

Directional Fins & Braking
Directional fins continuously guide the turbine for maximum wind exposure. The system starts turning at 0.5 mph (0.2 m/s), automatically shut down in high wind speeds. 38 mph (17.0 m/s) through its electro-magnets braking system and is designed to withstand winds up to 140 mph (62.6 m/s). FAQ’s

• What factors will affect the output of the turbine at each location depending on placement?

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
<th>Speed Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site A</td>
<td>residential</td>
<td>3.5 - 16.0 m/s</td>
</tr>
<tr>
<td>Site B</td>
<td>commercial</td>
<td>4.0 - 18.0 m/s</td>
</tr>
<tr>
<td>Site C</td>
<td>industrial</td>
<td>4.5 - 20.0 m/s</td>
</tr>
<tr>
<td>Site D</td>
<td>power generation</td>
<td>5.0 - 25.0 m/s</td>
</tr>
</tbody>
</table>

• The WindTronics Wind Turbine is designed for all environments from hot to cold temperatures and from coastal locations to mountaintops.

• Electrical connection is very similar to a traditional wind generator connected to the building or solar power to the grid. Refer to Building Code Regulations.

• You may advise your city, town or local construction planning department on site selection based on wind, rates and rebates. www.windknowledge.com has created a range of tools to assist in identifying proper site locations based on wind, rates and rebates.

• Edison Awards Gold Winner in the Energy & Sustainability category

• 2009 UNIDO Top Ten New Technologies

• Built like no other - Automated assembly lines.

Power One: Smart Box

3kW 12/24/48V Battery Charging

Aurora® Inverter, no batteries required

~ Sub-Panel

Main House

Aurora

Grid Tie

Aurora

Off-Grid

DC Charger

Smart Box

Smart Box

Connection Options

Connect to Building/House, Utility or 12/24/48V Batteries

Converts your wind – like no other.