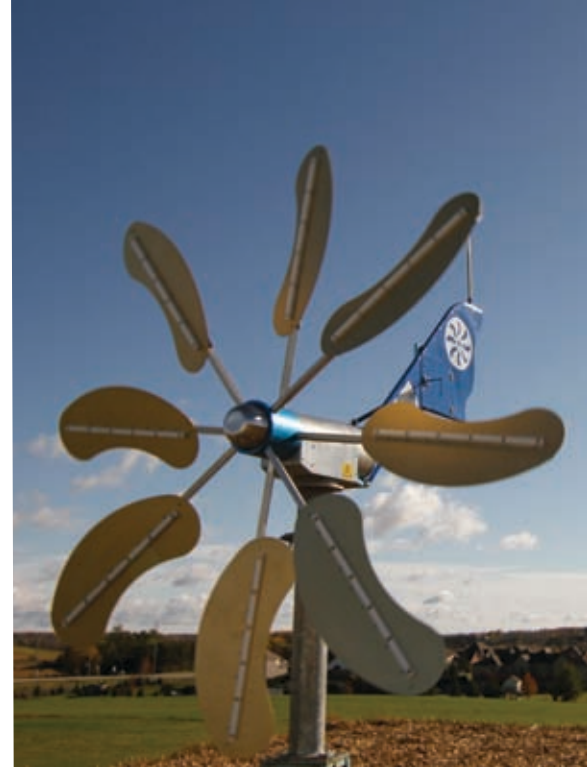




# Wind Simplicity

## Windancer™ Horizontal Wind Turbine

The patent-pending Windancer™ series by Wind Simplicity™ is direct drive with cutting-edge technology that maximizes power output at both low and high wind speeds. Cumulative power output at low wind speeds contributes to its efficiency over time. Innovations include balanced Samara windblades™ on one or two rotors and an adjustable automatic high-speed cut-off device on the unique windtail that immediately responds to changes in wind direction. The multi-award-winning design permits high efficiency on lower towers, reducing installation and maintenance costs. Made in Canada, quality components like the French-made Alxion alternator and U.S.-made Moog slip-ring are used throughout for durability and sustainability.



Windancer7-a

Feature	Windancer3-a	Windancer7-a	Windancer23*
Peak rated capacity (I)	3.2 kW–7.9 amps	6.6 kW–16.6 amps	22.8 kW–57.1 amps
RPM at peak rated capacity	350 rpm	350 rpm	600 rpm
Power at half speed	1.3 kW	2.7 kW	10.6 kW
Power start	20 rpm	10 rpm	30 rpm
Alxion alternator	300STK2M	300STK4M	500STK2M
Wind turbine weight	145 kg/320 lbs	174 kg/384 lbs	355 kg/783 lbs
Weight with tower connector	170 kg/375 lbs	181 kg/399 lbs	394 kg/869 lbs
Wind turbine length	207 cm/81 in	227 cm/89 in	303 cm/119 in
Blade diameter/ rotor	298 cm/117 in	298 cm/117 in	368 cm/145 in
Start-up speed (self-starting)	1 m/s	1 m/s	1 m/s
Windblades™	4	8	8
Rotors 45 degrees apart	1	2	2
Brake System	Hydraulic/Automated	Hydraulic/Automated	Manual
Over-speed protection	Yes	Yes	Yes
EN61400-2 compliant	Yes	Yes	Yes

\*Windancer23 available late 2011

### Characteristics of the Alxion Alternators

- Brushless permanent magnet (radial-flux), direct-drive, variable-speed AC synchronous alternator
- 3-phase power; rated voltage of 133V at 230 VAC phase to phase
- (I) Optimal performance below 40° C
- Windancer's alternator is not enclosed in a housing

Gold RCO Sustainable Product Award 2010 • Finalist ISRI Design for Recycling Award 2010  
 National Energy Globe Award 2009 • 1st Place International Design Award 2009  
 Finalist 2009-2010 CME NRC-IRAP Ontario Regional Award for New Technology  
 1st Place Green Dot Award 2008 • Gold Design Exchange Award in Engineering 2007

## Windancer™ Wind Dynamics

- Direct drive
- Self-starting (does not use electricity)
- Immediate response to change in wind direction
- Balanced Samara windblades™
- Unique windtail for immediate response to wind direction
- Clockwise rotation of blades facing upwind
- Windblades are aerodynamic with fixed pitch
- Second rotor expedites cycle of intake, power, and exhaust (turbo effect)
- Significant space around rotor drum minimizes wind turbulence

## Maximum Safety Features for Owners and Installers

- Stationary, permanent lightning rod
- Automatic high wind control, adjustable
- Manual brake control on tower
- Automatic brake over-speed control with independent power
- 2- lock-out controls on wind turbine
- CSA, or equivalent, approved
- Furling U on windtail for installers
- Lanyard contacts for installers

## Lower Maintenance

- Automated hydraulic brake
- Compact, light, strong
- Anodized aluminium windblades™ and body or powder-coated finish
- High-grade aluminium or steel parts
- Heavy-duty bearings
- Metric hardware
- On-tower regular maintenance

## Installation

- No mess turn-key installation available, including engineered tower, and electrical interface
- Save money on cranes in most instances
- Lower tower = lower installation costs
- Plug and play connection

## Warranty

- 3 year parts and labour
- 5 year extended warranty available

## Uses

- Connection to grid for Net-Metering or FIT
- Off-grid
- Water pumping
- Co-generation with solar

## Engineered Towers Available

- Tower connector provided
- Free-standing lattice or monopole 10m-12m (33ft-40ft)
- Ballast towers attached to building wall
- Hinged non-penetrating insulated towers for load-bearing or flexible roofs 4m (13ft)
- Mobile tower on trailer for plug and play unit – 3m (10ft)

## Windancer Advantages

- Engineered multi-award-winning design
- Uncompromised quality down to the bolts
- High efficiency with negligible noise and vibration
- Portable asset
- Blue body/gold blades standard colours
- Customized colours available
- Sustainable product lifecycle (reconditionable, recyclable)
- Visible to birds and bats
- No interference with radio signals



**Wind Simplicity**

Makes working with Nature a breeze

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These specifications are subject to change without notice.