

Whisper Silent 30 kW Wind Turbines



*at a rated wind speed of 11 m/s.

With increasing electricity prices and rising bills, more and more consumers are turning to wind as a source of natural, free, clean renewable energy.

This new technology vertical axis, high energy 30kW wind generator, mounted upon its tall, free-standing tower is almost silent in operation and is visible and safe to migratory birds.

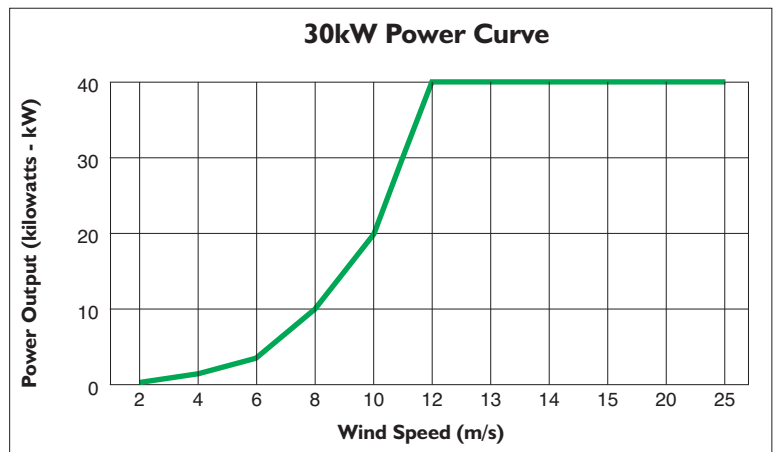
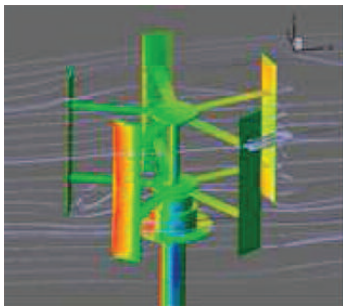
It is highly efficient - with the turbine able to rotate at low wind speeds - accepting wind from any direction. (Unlike the traditional, much noisier horizontal turbines that must face into the wind and can be slow to react to constant changes in wind directions).

Owners can opt to connect to the electricity grid [selling any excess capacity], or remain completely independent from the local electricity authority - drawing their energy requirements from their own storage bank of batteries.

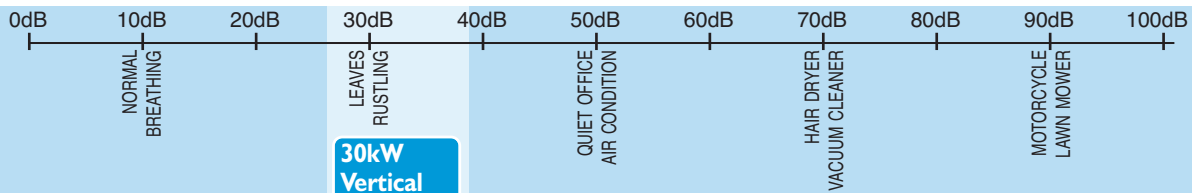
This particular A-axis energy solution is of particular interest to very large houses, local communities and municipalities, for industrialists, large retailers and supermarkets as well as hoteliers, who need to reduce or eliminate their conventional electricity bills.

A stylish solution to 'every day' industrial, large retail and tourism energy needs...

Featuring a particularly powerful generator and an omni-directional/variable pitch design - the A-axis 30kW wind turbine is designed to provide optimum performance - Harvesting the maximum power from the wind.



A sound comparison



**(HAWKSFORD
INDUSTRIES)
CY Limited**

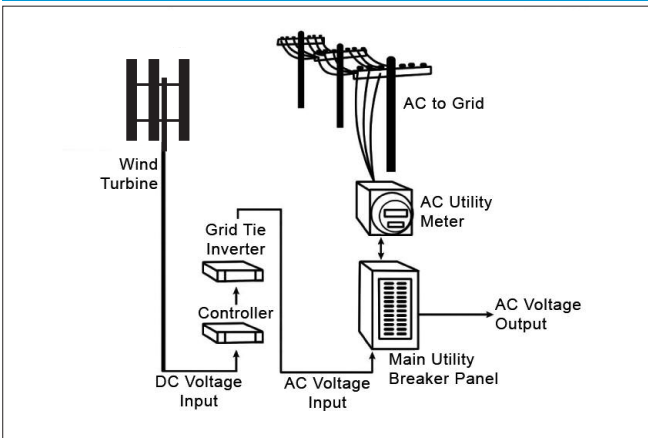
PO BOX 40149, 6301 LARNACA, CYPRUS

Telephone: 00 357 99 229420 Fax: 00 357 24 333433
Email: sales@hawksford.eu Web: www.hawksford.eu

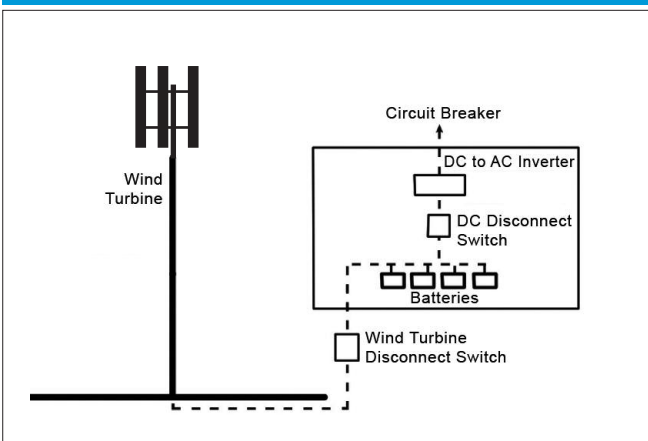




Grid Connected Schematic



Off Grid Schematic



technical specifications [model: 30kW-VAWT]

Performance

Rated power	30kW
Rated wind speed	11 m/s
Operating range	3 - 30 m/s
Maximum wind speed	60 m/s

Noise levels at 3m distance

Less than 7 m/s	27 dB
Between 7 -10 m/s	32 dB
Between 10 -13 m/s	37 dB

Physical parameters

Mill size	11m (W) x 10m (H)
Standard tower height	11.5m
Overall height	19m
Gross weight [without tower]	5000kg
Gross weight [with tower]	12000kg

Generator

Type	Permanent magnet direct drive DC generator
Nominal output/	50kW
Rated VAC	400
Rated temperature	-40°C to 115°C

DC Controller

Rated power	30kW
Output voltage	200-600V DC [Grid connected]

Off Grid Inverter

Available on request

Grid Connected Inverter

Input (DC)	200-600V DC
AC Grid Connection	415V 3 phase
Grid Frequency Nom.	50 Hz



Highly reliable in it's design - the A-xis 30kW VAWT provides ease of service and incorporates few moving parts - eliminating parasitic and unnecessary loads and weight.



PO BOX 40149, 6301 LARNACA, CYPRUS

Telephone: 00 357 99 229420

Fax: 00 357 24 333433

Email: sales@hawksford.eu

Web: www.hawksford.eu

The information contained within this leaflet is correct at the time of going to press, but may be subject to change.