

The Beauty of Expediency.

It's a piece of art work. And yet it's a functioning wind turbine producing electrical power.

Some see DNA in its form. Some likens the movement of the turbine to the gracefulness of a ballerina pirouetting. Whatever the comparison is, all seem to be in accord that the whole unit is a beautiful addition to the building and the environment.

Windside WS-4 has been developed for demanding professional use as are the other Windside Wind Turbine family members. With this uncompromised quality, Windside is a safe and workable solution both in demanding remote areas and in urban environment.

**Guaranteed Reliability.
Quality Without Compromise.**

Environmental art work "Wind Images" by artist Tarja Ervasti. Arabianranta, Helsinki, Finland. Photo by Ilkka Volanen.



windside®

Windside® WS-4 – Beauty and efficiency

You can easily run into a Windside WS-4 wind turbine anywhere, since its usage purposes are innumerable. Wherever you need energy and there is no grid connection available, Windside WS-4 will be at your service. They have been favoured in artistic installations and buildings, and at the same time they've been tested and used by Finnish Army as well as many other professional bodies.

Like the other Windside models, WS-4 has been built to last a lifetime. Only the highest grades of materials are used, and each individual will go through a careful finishing and inspection. Already the weight of the product is a proof of quality: materials and durability have not been compromised.

Besides safety, quality means also the ease of use. Windside turbines have been designed function as autonomous units with minimum need of service. Just install the turbine and leave it to work. The only maintenance needed is the lubrication of the bearings which can also be taken care of by an automatic lubrication system.

A 10 year limited warranty available.

The WS-4 model is available in all wind endurance classes (B- and A-models).

Please, check our web site www.windside.com and contact your nearest distributor. More information can be obtained also from the manufacturer:

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Windside WS-4B / WS-4A:

- Weight: 800 kg (B) / 1200 kg (A)
- Swept area: 4 m²
- Generator: 50 A in delta, 28 A in star connection
- Voltage: 1-200 V in delta, 1-400 V in star connection
- WS-4B and WS-4A models max. 1000 rpm
- WS-4B stands continuous winds of 40 m/s, and WS-4A 60 m/s.

Materials:

- Vanes: fibre glass
- Fastenings: aluminium
- Generator and end plates: steel and aluminium
- All bolts stainless steel or galvanized (A4, A2 or Zn)

Assets of Windside wind turbines:

- No need to stop or secure during storms
- Produces max. amount of energy in storms
- Produces at low winds, below 3 m/s
- No need to be turned according to the wind direction
- Soundless (less than 5 dB, background noise always when measured)
- Stands snow, frost, heat, humidity and corrosion
- Allowed to be mounted on residential buildings
- Long lifespan
- Minimum need of maintenance, only lubrication

