

DATA SHEET

# WINDBUSH 12A

By



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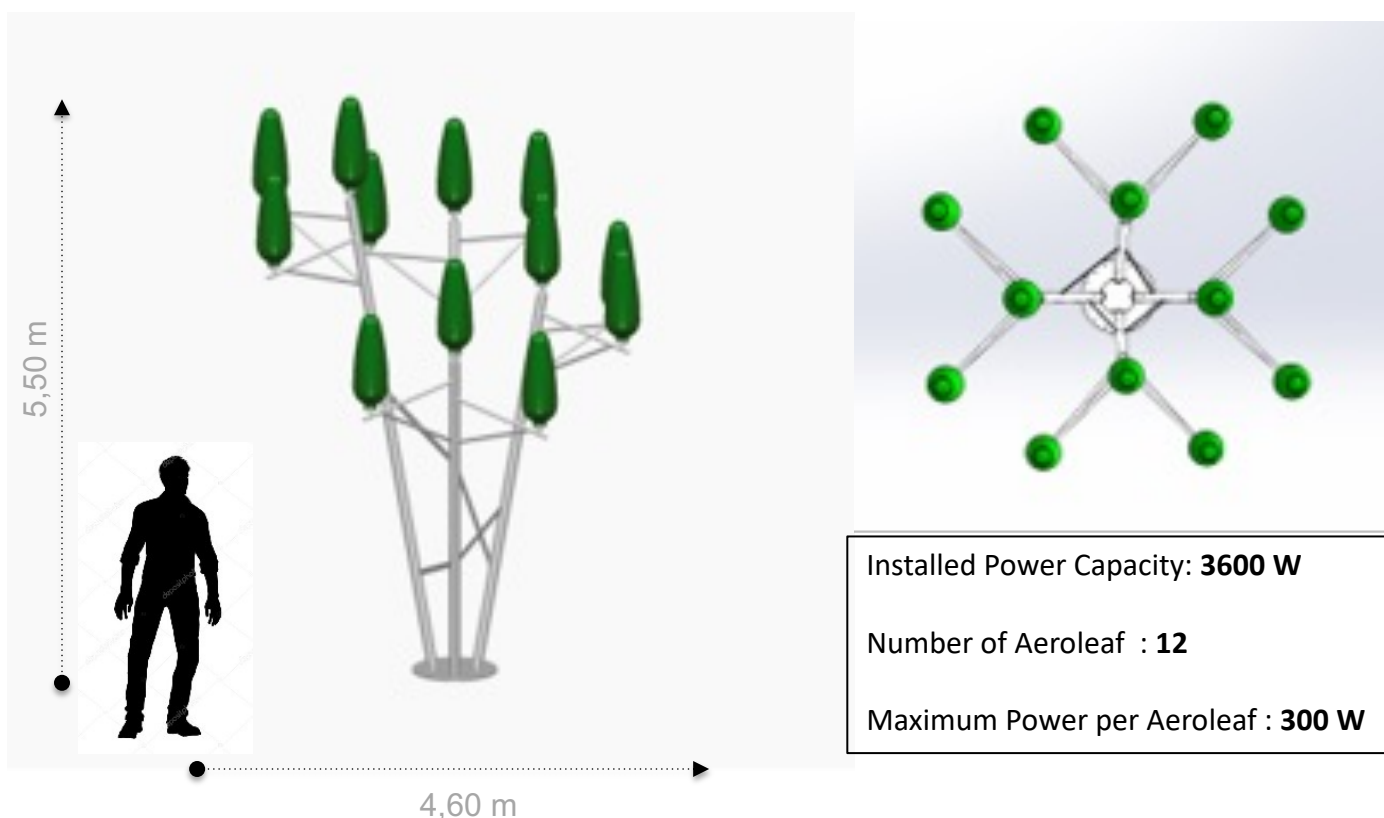
## 4. Summary

APPENDIX  
WindBush anchor

# THE WINDBUSH

The WINDBUSH is an optimized set of 12 Aeroleaf 300 W mounted on 4 trunks connected to each other.

The WINDBUSH is particularly relevant for small spaces. It can be installed alone or in a row, on the driveway or the fence line, on your roof or your terrace, or simply in your backyard.



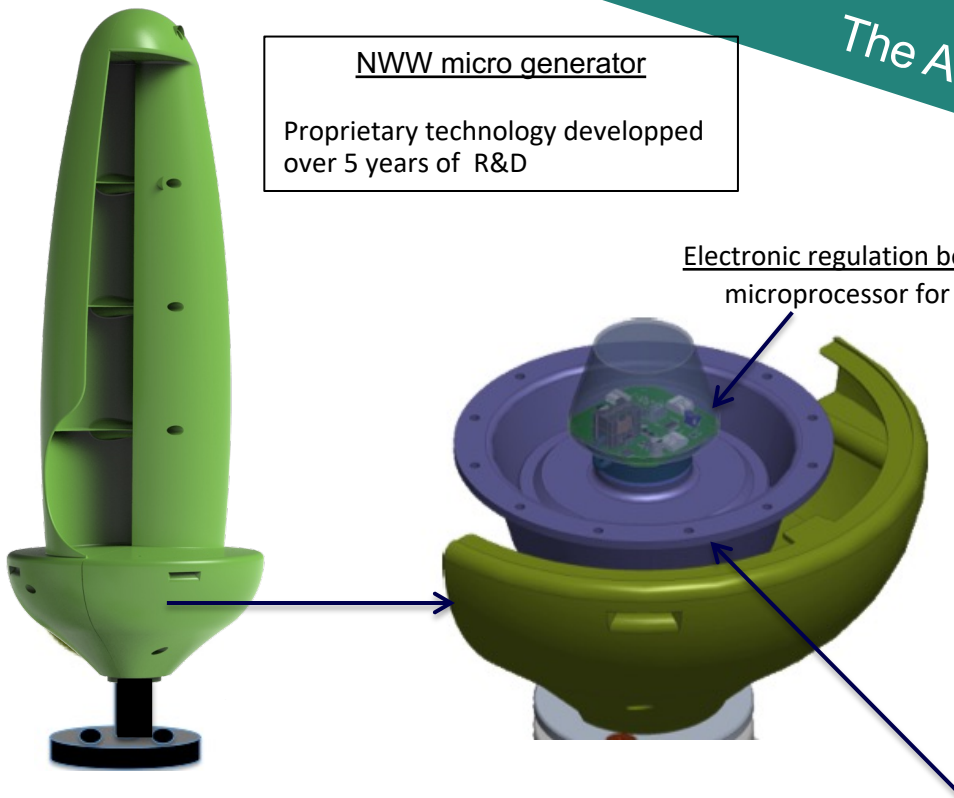
The WINDBUSH requires a small foundation integrating the passage of the cables in the sleeves (see drawing in appendix).

The simplicity of its installation makes it an affordable solution, easy to deploy, satisfying most local electrical needs.

## NWW micro generator

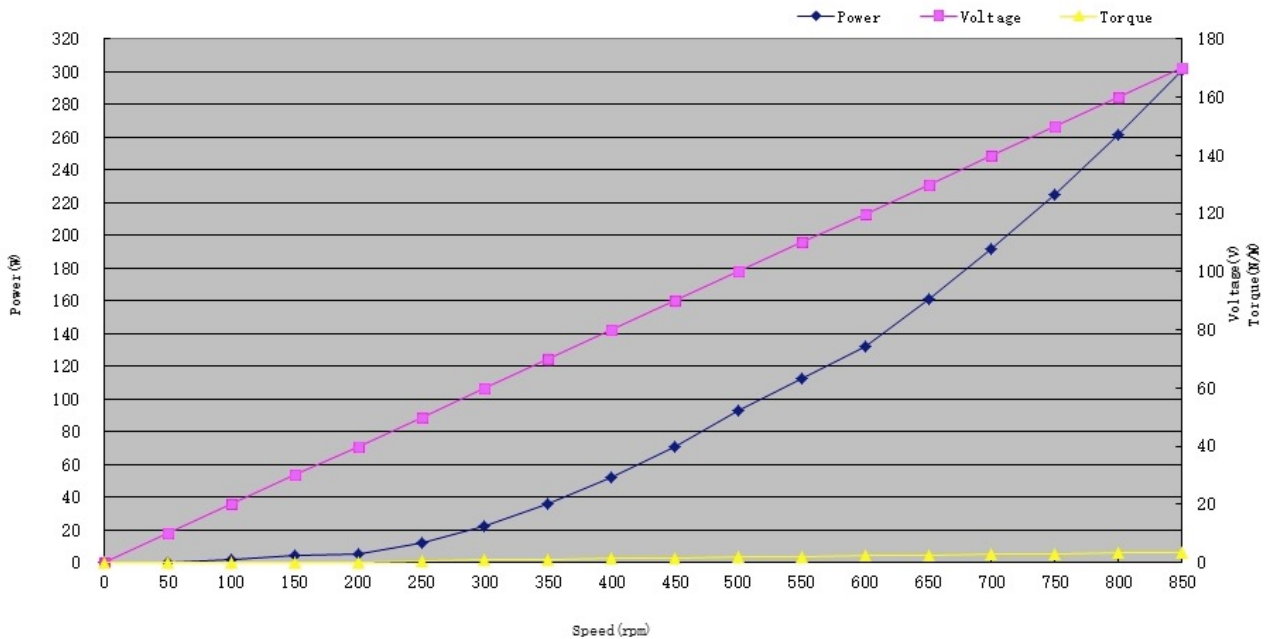
Proprietary technology developed over 5 years of R&D

Electronic regulation board with integrated microprocessor for maximum efficiency



The Micro generator designed by NWW is doubly protected by a casting and a bulb which surrounds it to protect from the most aggressive environments: rain, sand, snow, various pollutions, salty air.

## 300W-850RPM-170 VAC

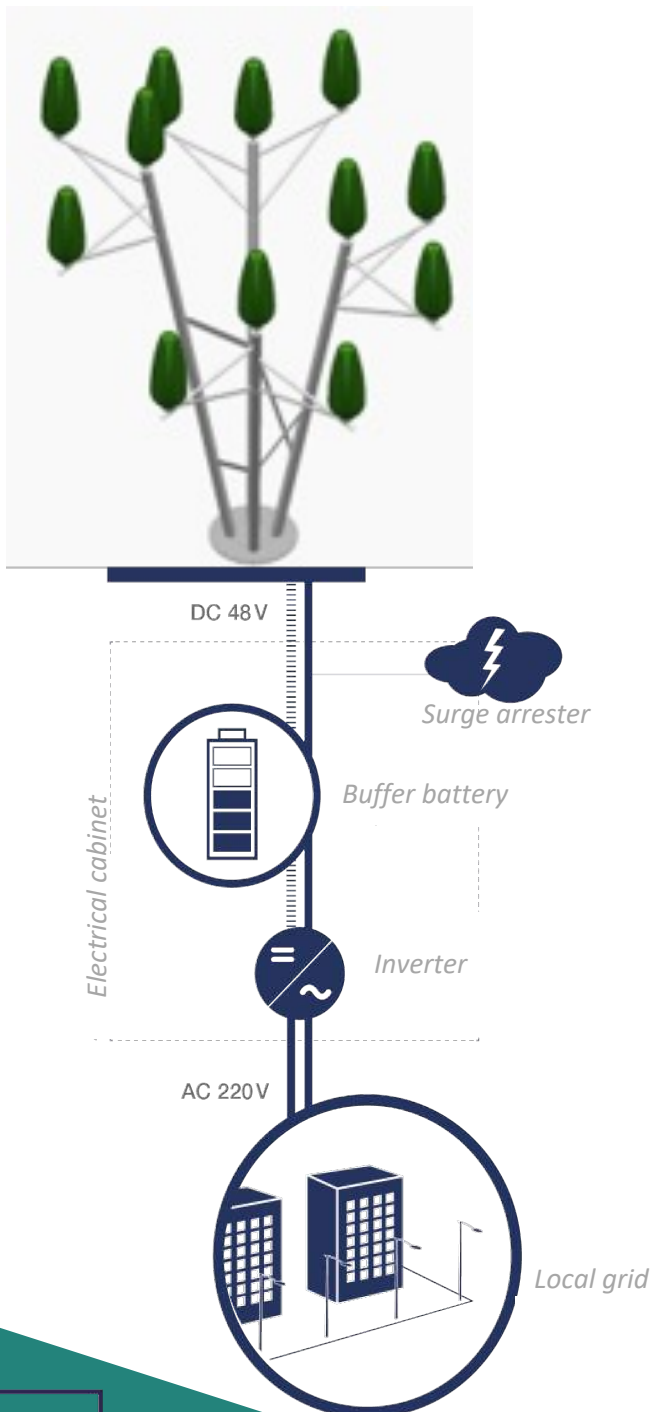


Power Curve by Aeroleaf  
Voltage/Power/Rotation speed

SCHEMATICS

The electricity produced by the Aeroleaf forms an electrical pathway that travels in parallel from branch to branch to an electrical cabinet containing all the regulatory safety devices.

The sum of the currents is performed in the inverter in a fully optimized manner by capitalizing on the diffuse energies.



New World Wind provides an electrical cabinet compliant with the electrical standards in France/Europe.

We will comply to your country requirements.

The Electrical cabinet is made of:

- A battery, allowing to temporarily regulate the electricity production to limit peaks and solely for short time needs. It is not for storage.
- A specific inverter dedicated to self-consumption that connects directly to the customer's main switchboard (TGBT).
- All the security systems required for commissioning (fuse wire, switchgears, lightning conductor and isolation switch).

As such, the electrical cabinet is readily available for connection to local grid.

# INSTALLATION

The installation of the WINDBUSH requires a concrete base 23 cm thick to receive the anchor plate (supplied by NWW) on which the base of the trunks are fitted together by reinforcements also provided.

The installation requires civil works for the passage of the electric sheaths of the Lotus towards the cabinet.

**The Installation requires a lifting mechanism of 12 meters to position the Aeroleaf at the end of each branch.**

The client shall however prepare:

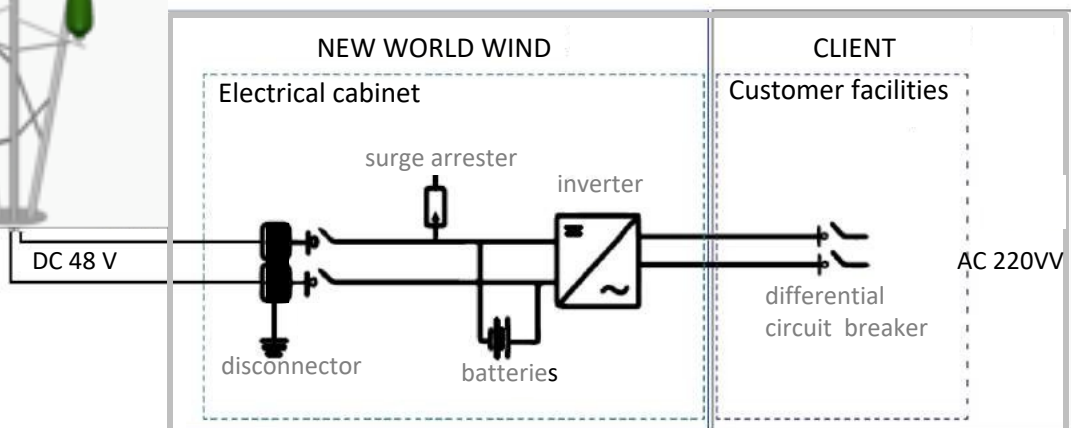
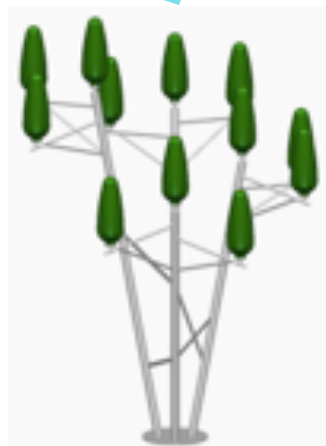


- Earthworks
- Small concrete block (according to attached appendix)
- The trench + Installation of sleeves between the WINDBUSH and the electrical cabinet (10 meters max)
- Grounding the Aeroleaf
- The Anchoring base for the electrical cabinet (if needed)

**A safety perimeter** of 8 meters around the WINDBUSH is necessary to allow the Skylift/EWP to maneuver

The full installation (mount and electric connection) can be done from 1 to 2 days (depending on the site).

The WINDBUSH is based on the concept of on-site generation and self consumption of the electricity in the connected building/area.



SCHEMATIC OF ELECTRIC INSTALLATION

The WINDBUSH is connected to the local grid through the NewWorldWind electrical cabinet. A dedicated space should be prepared for the cabinet, with a maximum distance of 10 meters from the bush. In addition to the WINDBUSH and its electrical cabinet, New World Wind provides also the electrical wires between the Lotus and the Cabinet.

The overall installation is compliant with the current European standards. In case of specific difficulties, New World Wind can propose adaptations to make the installation possible (on consultation).

The electrical cables sleeves between the WINDBUSH and the Electrical cabinet is explained in the civil engineering specifications. Similarly, any specific protection and wiring to the Electrical cabinet shall be prepared by the Customer to allow for the connection between the Electrical cabinet and the customer facilities.

# SUMMARY

## MECHANICAL SPECIFICATIONS

Height	5,50 m
Diameter WINDBUSH	4,60 m
Height Aeroleaf	0,95 m
Total Weight	960 kg
Number of Aeroleaves	12

## AEROLEAF SPECIFICATIONS

Starting speed	2,5 m/s (9 km/h)
Maximum Power per Aeroleaf	300 W
Maximum Wind	43 m/s continuously, 50 m/s in gusts (180 km/h)

## ELECTRICAL SPECIFICATIONS

Installed capacity	3600 W
Voltage required	48 W
Inverter voltage out put	110 V - 230 V

## SITE INSTALLATION

Installation Timeframe	From 1 to 2 days depending on the site
Max distance between the bush and the cabinet	10 m



## RESPONSIBILITIES

Preparation of underground Sleeves	Client
Earthworks + small concrete block	Client
Installation of the WINDBUSH with its Aeroleaf	New World Wind
Installation of the Electrical Cabinet	New World Wind
Connection between the Lotus and the electrical cabinet	New World Wind
Connection between the NWW cabinet and the customer facilities	Client



### Key notes

- The WINDBUSH doesn't require a declaration of site works under the French standards, other local regulations would have to be respected
- simplicity of implementation
- Possibility to erect the WindBush yourself (subject to NWW supervision)