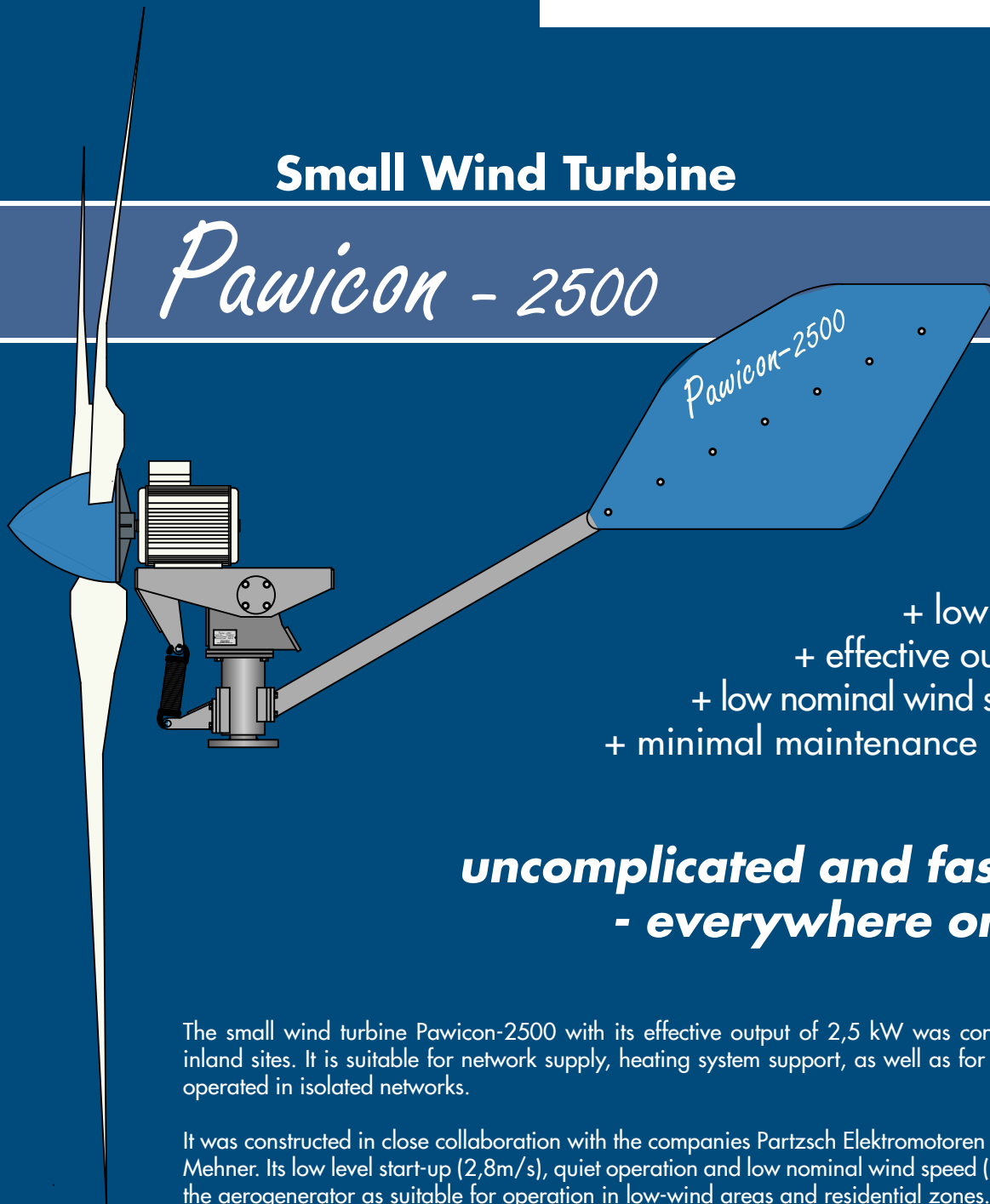


PARTZSCH

Windgeneratoren Service GmbH

Small Wind Turbine

Pawicon - 2500



- + low level start-up
- + effective output: 2,5 kW
- + low nominal wind speed: 11 m/s
- + minimal maintenance requirements

***uncomplicated and fast energy
- everywhere on world -***

The small wind turbine Pawicon-2500 with its effective output of 2,5 kW was conceived especially for inland sites. It is suitable for network supply, heating system support, as well as for battery charge when operated in isolated networks.

It was constructed in close collaboration with the companies Partzsch Elektromotoren and Elektronikservice Mehner. Its low level start-up (2,8m/s), quiet operation and low nominal wind speed (11 m/s) characterizes the aerogenerator as suitable for operation in low-wind areas and residential zones. The simple and solid design of the Pawicon-2500 allows for minimal maintenance requirements.

The easy-to-go design was conceived with emphasis on effortless transport and manual assembly all over the world.

If you are interested we will be pleased to send you more details.

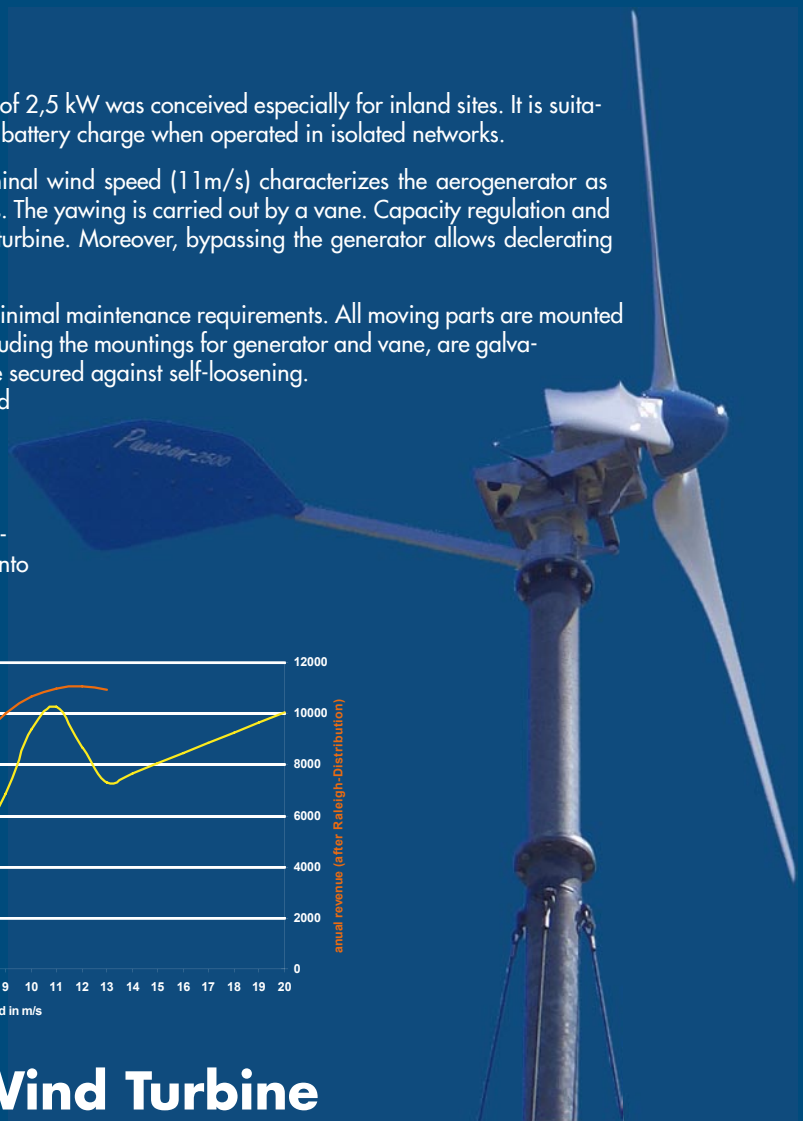
The Concept:

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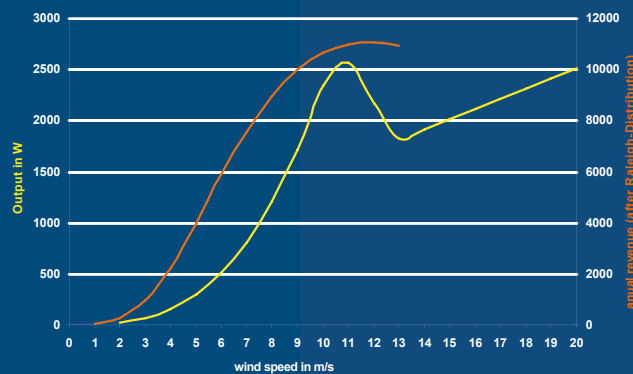
Its low level start-up (2,8m/s), quiet operation and low nominal wind speed (11m/s) characterizes the aerogenerator as suitable for operation in low-wind areas and residential zones. The yawing is carried out by a vane. Capacity regulation and storm safety are achieved by automatic fold up of the wind turbine. Moreover, bypassing the generator allows decelerating and stopping the rotor.

The simple and solid design of the Pawicon-2500 allows for minimal maintenance requirements. All moving parts are mounted without need for further maintenance. Load-bearing units, including the mountings for generator and vane, are galvanised. The bolted connections consist of stainless steel and are secured against self-loosening. The rotor is connected to a generator drive shaft directly, and power is transmitted via a slip ring transducer.

The rotor blades with their computer-drafted aerodynamic profile are manufactured in a handcraft lamination process. The easy-to-go design was conceived with emphasis on effortless manual assembly. The Pawicon-2500 can be mounted onto concrete- as well as steel towers with a wind load of 700kg.



output curve:



Small Wind Turbine

Pawicon - 2500



wind speeds

start-up speed:	2,8 m/s
nominal wind speed:	11 m/s
automatic braking at:	19 m/s

Rotor:

number of blades:	3
diameter:	3,50 m
material:	fibre glass / carbon fibre laminate (<i>handcrafted</i>)
rotation speed:	420 min ⁻¹ at 11 m/s
yawing:	vane
power limitation:	rotor tilt
braking system:	generator bypass
sound power level:	93,3db(A)
<i>(close to mast at 11 m/s)</i>	

electric system:

type of generator:	3 phases synchronus generator
output:	2500 W at 11 m/s
voltage:	400V
controller:	control electronics cabinet for controlling characteristics and monitoring the unit itself