

PRODUCT DATA SHEET

Viking VS



Viking Wind ApS
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VIKING VS

TECHNICAL SPECIFICATIONS

Viking VS is a Danish designed and Danish produced small wind turbine in order to assure a superior quality.

Viking VS is available with following options:

- Grid connection
- Stand alone
- Wind diesel



OPERATING DATA

Nominal power	10 up to 25kW
Hub height	18 m
Total height	24.5 m
Power control	Stall
Active wind range	3 - 25 m/s
Cut-out wind speed	25 m/s
Survival wind	55 m/s
Yaw system	Active, automatic cable untwist
Operational temperature	-20C° to +40 C°

ROTOR

Type	Stall with tip brake
Rotational direction	Clockwise
Blades	3
Rotor diameter	13 m
Swept area	133 m ²
Rotor material	Fibre glass
RPM	Variable up to 65
Tip-speed	Variable up to 45 m/s

GENERATOR

Generator	VEM Motors GmbH
Type	G21R 200 L4 HW
Voltage	3 x 400V + N
Frequency	50 - 60 Hz
Rated RPM	1525

APPROVAL

Type approval according to IEC 61400-2 standard SWT Class III

GEAR

Manufacturer	STM
Type	ERX 1501

SAFETY

Brakes Electromechanical fail safe
MAYR 10/800.410.3

Service and maintenance is carried out while the turbine is at ground level. It is never necessary to climb the tower. Both independent brake systems are "fail safe".

TOWER

Type Viking Wind Gin Pole

Viking VS is produced with tower-tilt to ease both installation and maintenance.

CONTROL SYSTEM

Manufacturer Viking Wind

PERFORMANCE

Annual production in Denmark Up to 95.000 kWh

VIKING VS - ANNUAL ENERGY PRODUCTION (KWH)

		Annual averages wind m/s			
Weibull k		4,5	5,5	6,5	7,5
2		31.000	56.000	76.500	96.000