

PRODUCT DATA SHEET

Viking VS



HSWind ApS
Holger Danskes Vej 23D
8960 Randers SØ
Denmark

viking-wind.energy
info@viking-wind.energy
Phone: +45 4333 5692



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	variable speed/ Stall
Active wind range	3 - 25 m/s
Cut-out wind speed	25 m/s
Survival wind	52,5 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 LEROY-SOMER
Type	K21R 200 L4 HW LS200LT
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	Benzler _ STM
Type	D40204-M1_ ERX 1501

SAFETY

Brakes	Electromechanical fail safe
	MAYR 10/800.410.3
	LEROY-SOMER-54H1D

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	HSWind Tilt
------	-------------

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

CONTROL SYSTEM

Manufacturer	HSWind
--------------	--------

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