



# VIKING VS

Data Sheet

45  
viking

Viking VS – danish designed and produced small wind turbine



# TECHNICAL SPECIFICATIONS

## OPERATING DATA

Nominal Power ..... 10-25 kW  
Hub height ..... 18 m  
Total height ..... 24,5 m  
Power Control ..... variable speed/inverter  
Active wind range ..... 3-25 m/sec.  
Cut-out wind speed ..... 25 m/sec.  
Survival wind speed ..... 52,5 m/sec.  
Yaw mechanism ..... Active,  
automatic cable untwist  
Operational temperature ..... -20° C to +40° C

## ROTOR

Type ..... stall with tip brake  
Rotational direction: ..... clockwise  
Blades ..... 3 pcs.  
Rotor diameter ..... 13 m  
Swept area ..... 133 m<sup>2</sup>  
Rotor material ..... fiberglass  
Rpm ..... up to 65/min.  
Tip speed ..... up to 45 m/sec.

## GENERATOR

Type ... VEM Motors GmbH G21R 200 L4 HW  
Voltage ..... 3 x 400V + N  
Frequency ..... 50-60 Hz  
Rated rpm ..... 1525/min.

## APPROVAL

Type approved according to IEC 61400-2 standard SWT Class III.

## GEAR

Manufacturer ..... STM  
Type ..... ERX 1501

## SAFETY

Fail safe brake ..... MAYR 10/800.410.3  
Tip brake

## TOWER

Type ..... Viking Wind GinPole  
Viking VS is produced with tower tilt for easy installation and maintenance.

## CONTROL SYSTEM

Manufacturer ..... Viking Wind

## PERFORMANCE

Annual production in Denmark: up to 95.000 kWh

## VIKING VS – ANNUAL ENERGY PRODUCTION (kWh)

Weibull K	4,5	5,5	6,5	7,5
2	31.000	56.000	76.500	96.000

## SERVICE

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