



# **DATASHEET**

**VIKING VS**



# TECHNICAL SPECIFICATIONS

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

Viking VS is available with following options:

- Grid connection
- Stand-alone
- Wind diesel



## OPERATING DATA

Nominal power: 10 til 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<sup>2</sup>

Rotor Material: Fibreglass

RPM: Variable up to 65

Tip-speed: Variabel 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

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 GinPole

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)

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