PRODUCT BENEFITS

- Dispensing with a gearbox means lower repair and maintenance costs and a higher yield.

- High-quality permanent magnets prevent electrical excitation losses, which additionally increases the energy yield.

- The generator cooling system with air-to-air heat exchangers is fully encapsulated, protecting it from salty air, humidity, dust and dirt.

- The blade pitch system with a toothed belt drive is lubrication-free, resistant to wear and requires little maintenance.
VENSYS 100
2.5 MW

Operating data
Rated power 2.5 MW
Cut-in wind speed 3 m/s
Cut-out wind speed 25 m/s
Operating temperature −20°C bis +40°C

Sound power
Optimized for maximum performance 105.1 dB(A)
(Sound-reduced operating modes available)

Rotor
Diameter 99.8 m
Swept area 7,823 m²
Rotational direction Clockwise
Rated speed 14.5 rpm
Blade type LM 48.8
Power control Pitch
Primary braking system Single-blade adjustment, triple redundant
Holding brake Hydraulic with locking bolt

Generator
Type Synchronous generator with permanent magnet excitation
Construction type Direct drive

Yaw system
Construction principle Geared electric motors
Braking system Hydraulic brake calipers

Converter
Type IGBT full power converter
Frequency 50 Hz / 60 Hz

Tower
Hub heights 75 m | 100 m
Material Steel tube

Design
Hub height 75 m DIBt WZ 3; IEC IIA
Hub height 100 m DIBt WZ 2; IEC IIIA

POWER CURVE VENSYS 100

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<tr>
<th>Wind speed (m/s)</th>
<th>AEP [MWh] VENSYS 100 - LM 48.8</th>
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Specifications subject to change without prior notice.