



## 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 air-cooling system used for the generator and the VENSYS frequency converter saves on additional components, cooling agents and maintenance work.
- ▼ The blade pitch system with a toothed belt drive is resistant to wear and requires little maintenance.

# VENSYS 62

1.5 MW

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## Operating data

|                       |                 |
|-----------------------|-----------------|
| Rated power           | 1.5 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         | 102.0 dB(A) |
| (Sound-reduced operating modes available) |             |

## Rotor

|                        |  |
|------------------------|--|
| Diameter               | 62 m   |
| Swept area             | 3,019 m <sup>2</sup>                         |
| Rotational direction   | Clockwise                                    |
| Blade type             | EBT 30                                       |
| Power control          | Pitch  |
| Primary braking system | Single-blade adjustment,<br>triple redundant |
| Holding brake          | Hydraulic with locking bolt                  |

## Generator

|                   |   |
|-------------------|---|
| Type              | Synchronous generator with<br>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 height 49.0 m | Steel tube tower |
|-------------------|------------------|

## Wind Class

IEC IA | DIBt WZ 4

## POWER CURVE VENSYS 62

| Ø Wind speed<br>m/s | AEP [MWh]<br>VENSYS 62 - EBT 30 |
|---------------------|---------------------------------|
| 5.0                 | 1,659.2                         |
| 5.5                 | 2,168.4                         |
| 6.0                 | 2,714.3                         |
| 6.5                 | 3,278.7                         |
| 7.0                 | 3,845.8                         |
| 7.5                 | 4,402.2                         |
| 8.0                 | 4,937.6                         |
| 8.5                 | 5,443.7                         |

Power (kW)

