



# E-175 EP5

6,000 kW



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 **ENERCON**  
ENERGY FOR THE WORLD

## TECHNICAL DATA

# E-175 EP5

Last updated: 08/2022. Technical information subject to change.

### GENERAL

|   |  |
|---|--|
| Nominal power                                       | 6,000 kW   |
| Wind class (IEC)                                    | IEC S  |
| Wind zone (DIBt)                                    | WZ 2 GK II   |
| Turbine concept                                     | gearless,<br>variable speed,<br>full power converter                                 |
| Design service life                                 | 25 years (IEC S)   |
| Cut in wind speed                                   | 2.0 m/s  |
| Cut out wind speed                                  | 20 m/s   |
| Extreme wind speed<br>at hub height (3-second gust) | 56.0 m/s   |
| Ambient temperature<br>for normal operation         | -10 °C to +40 °C   |
| Extreme temperature range                           | -20 °C to +50 °C   |
| Grid feed /<br>control system                       | IGBT-Control   |
| Grid frequency                                      | 50 Hz / 60 Hz  |
| Sound power level                                   | 106.5 dB(A)*<br>Yield and noise-optimised<br>operation. Further modes on<br>request. |

### ROTOR

|                |   |
|----------------|---|
| Rotor diameter | 175 m                                     |
| Type           | upwind rotor with active<br>pitch control |

### TOWER

| Hub height | IEC SA | IEC IA | IEC IIA | IEC IIIA |
|------------|--------|--------|---------|----------|
|            | 112 m  |        |         |          |
|            | 132 m  |        |         |          |
|            | 160 m  |        |         |          |

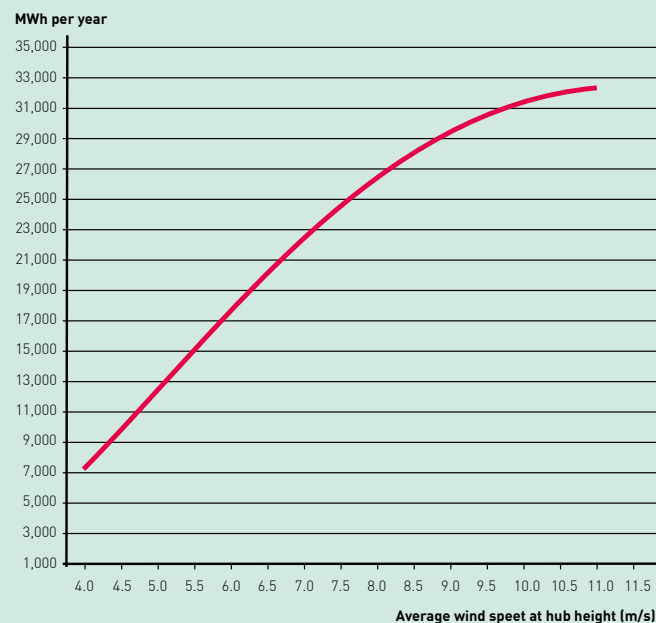
### GENERATOR

|                |   |
|----------------|---|
| Type           | multi-pole synchronous<br>generator (PMG) |
| Cooling system | air cooling system                        |

### FEATURES

|                                  | STANDARD | OPTIONAL |
|----------------------------------|----------|----------|
| FACTS and transmission           | X        |          |
| ENERCON SCADA                    | X        |          |
| Shadow shutdown                  |          | X        |
| ENERCON SCADA bat protection     |          | X        |
| Ice detection system             |          | X        |
| Sector management for wind farms |          | X        |
| Beacon management for wind farms |          | X        |

### ANNUAL ENERGY YIELD



\* dependent on hub height