V112-3.45 MW®
IEC IA
Facts & figures

**POWER REGULATION**
Pitch regulated with variable speed

**OPERATING DATA**
Rated power 3,450 kW
Cut-in wind speed 3 m/s
Cut-out wind speed 25 m/s
Re cut-in wind speed 23 m/s
Wind class IEC IA
Standard operating temperature range from -20°C to +45°C with de-rating above 30°C

*subject to different temperature options

**SOUND POWER**
(Sound Optimised Modes dependent on site and country)

**ROTOR**
Rotor diameter 112 m
Swept area 9,852 m²
Air brake full blade feathering with 3 pitch cylinders

**ELECTRICAL**
Frequency 50/60 Hz
Converter full scale

**GEARBOX**
Type two planetary stages and one helical stage

**TOWER**
Hub height 69 m (IEC IA) and 94 m (IEC IA)

**NACELLE DIMENSIONS**
Height for transport 3.4 m
Height installed (incl. CoolerTop*) 6.9 m
Length 12.8 m
Width 4.2 m

**HUB DIMENSIONS**
Max. transport height 3.8 m
Max. transport width 3.8 m
Max. transport length 5.5 m

**BLADE DIMENSIONS**
Length 54.7 m
Max. chord 4 m

Max. weight per unit for transportation 70 metric tonnes

**TURBINE OPTIONS**
- High Wind Operation
- Power Optimised Mode
- Condition Monitoring System
- Service Personnel Lift
- Vestas Ice Detection
- Vestas De-Icing
- Low Temperature Operation to -30°C
- Fire Suppression
- Shadow detection
- Increased Cut-In
- Nacelle Hatch for Air Inlet
- Aviation Lights
- Aviation Markings on the Blades
- Vestas InteliLight™

**ANNUAL ENERGY PRODUCTION**

Assumptions:
One wind turbine, 100% availability, 0% losses, k factor = 2,
Standard air density = 1.225, wind speed at hub height

![Graph of energy production vs. wind speed]

The graph shows the annual energy production of the V112-3.45 MW® IEC IA model, with energy production increasing as the yearly average wind speed increases.