Date 25.07.2016

6.2M152

Design data

Nominal power	6,150 kW (MV-side)
Cut-in wind speed	3.5 m/s
Nominal wind speed	12 m/s 11.5 m/s
Cut-out wind speed	25 m/s 30 m/s
Restart cut-in wind speed	20 m/s 25 m/s
Operating temperature range	-20 – +35 °C

Certification

Hub height	Wind class	DIBt Wind zone
121 – 124 m	IEC S	WZ 4
97 – 100 m	IEC S	-

Rotor

Diameter	152 m
Rotor area	18,146 m²
Rotor speed	6.4 – 10.1 1/min (+15 %)
Power control	Electrical pitch

Rotor blade

Blade length	74.4 m
Type	Glass fibre-reinforced plastic (GRP)
Max. chord width	4.5 m

Gear system

Type	Three-stage planetary / spur gearbox
Gear ratio	i = approx. 116
Type of suspension	Four-point contact suspension

Weight

Rotor blade	Approx. 25.5 t
Nacelle	Approx. 350 t
Rotor Hub	Approx. 82 t

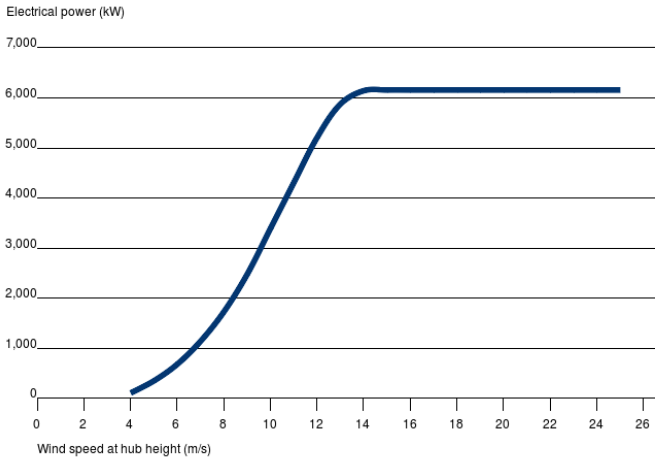
Electrical system

Nominal power	6,150 kW (MV-side)
Nominal voltage	20/30/33 kV
Nominal frequency	50 Hz
Generator	Double-fed-induction generator
Generator protection class	IP 54
Stator voltage	6.6 kV
Nominal speed	1,170 1/min
Speed range	750 – 1,170 1/min
Converter type	Pulse width modulation IGBTs (liquid-cooled)
Transformer	ITS (Drei-Wicklungen-Gießharztransformator)

Sound power level

Maximum sound power level	109 db (A)

Power curve



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