Technical specifications

Wind turbine SG 8.0-167 DD

Product Name: SG 8.0-167 DD
Application: Offshore
Technology: Direct Drive
Wind Class: I B

Rotor	
Type	3-bladed, horizontal axis
Position	Upwind
Diameter	167 m
Swept area	21,900 m2
Power regulation	Pitch regulation with variable speed

Blade	
Type	Self-supporting
Blade Length	81,5 m
Aerodynamic profile	Siemens proprietary airfoils, FFA-W3-XXX
Material	GRE
Surface gloss	Semi-mat, < 30 / ISO2813
Surface color	Light grey, RAL 7035

Aerodynamic Brake	
Type	Full-span pitching
Activation	Active, hydraulic

Mechanical Brake	
Type	Hydraulic disc brake

Generator	
Type	Synchronous, PMG, direct drive

Grid Terminals (LV)	
Nominal Power	8,000 kW
Voltage	690 V
Frequency	50 Hz

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Canopy	
Type	Totally enclosed
Surface gloss	Semi-gloss, 25-45 / ISO2813
Color	Light grey, RAL 7035
Material	Glass fiber reinforced polymer with inlayed EMC shielding

Yaw System	
Type	Active
Yaw bearing	Externally geared
Yaw drive	Electric gear motors
Yaw brake	Passive friction brake

Controller	
Type	Microprocessor based
SCADA system	Siemens SCADA
Contoller designation	Siemens Integrated Control System (SICS)

Tower	
Type	Cylindrical and tapered tubular
Hub height	Site-specific
Corrosion protection	Painted
Surface gloss	Semi-gloss, 25-45 / ISO2813
Color	Light grey, RAL 7035

Operational data	
Cut-in wind speed	3-4 m/s
Nominal power at	12-13 m/s
Cut-out wind speed	25 m/s (28 m/s with HW0)
Maximum 3 s gust	70 m/s

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