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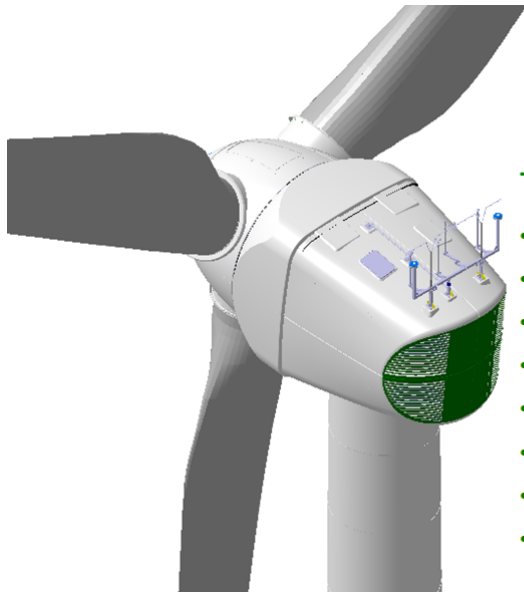
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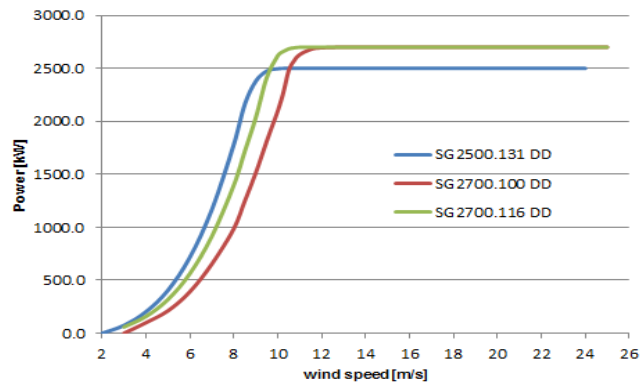
SG2500.131 DD
SG2700.100 DD
SG2700.116 DD



The advantages

- permanent magnet synchronous generator
- intelligent power converter
- excellent grid connection
- low maintenance and lifecycle costs
- noise-optimised design
- high availability
- wind class IEC IIA, IEC IIIA and SA 6.5
- varying tower heights: 100m, 120m

The innovative gearless drive train concept (direct drive) enables excellent efficiency, especially in partial load range and ease of service throughout the lifecycle. The turbines of the Multi-MW platform are available for three different wind speeds: IEC IIA, IEC IIIA and SA 6.5. In addition the available tower heights allow a customized design and thus lead to an optimal cost-benefit ratio for every site.



Power curves of all variants



Power 2.5 MW 2.7 MW

General data	2.5 MW	2.7 MW	2.7 MW
Turbine	SG2500.131 DD	SG2700.100 DD	SG2700.116 DD
Wind class	SA 6.5	IEC IIA	IEC IIIA
Grid frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
Rotor diameter	131m	100m	116m
Hub height (HH)	120m	100m	100m
Operating data			
Average wind speed	6.5m/s	8.5m/s	7.5m/s
Cut-in wind speed	3m/s	3m/s	3m/s
Rated wind speed	10m/s	11.3m/s	10.5m/s
Cut-out wind speed	20m/s	25m/s	24m/s
Temp. range (operation)	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C
Temp. range (survival)	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C

Tower	2.5 MW	2.7 MW	2.7 MW
Type	tubular steel tower	tubular steel	tubular steel

Machinery	2.5 MW	2.7 MW	2.7 MW
Drive train	direct drive	direct drive	direct drive
Pitch system	planetary gearbox with AC servo motors	planetary gearbox with AC servo motors	planetary gearbox with AC servo motors
Yaw system	ball bearing with hydraulic brake	ball bearing with hydraulic brake	ball bearing with hydraulic brake

Electric	2.5 MW	2.7 MW	2.7 MW
Generator	low speed synchronous, air-cooled (closed circulation)	low speed synchronous, air-cooled (closed circulation)	low speed synchronous, air-cooled (closed circulation)
Converter	full 4-quadrant, water-cooled	full 4-quadrant, water-cooled	full 4-quadrant, water-cooled

Variants of Multi-MW platform