

S&G Wind Turbines



	Medium Turbines				MW Turbines			Multi-MW Turbines		
Power	500KW	500KW	750KW	750KW	1.7MW	1.7MW	1.7MW	2.5MW	2.7MW	2.7MW
General data										
Turbine	SG500.54	SG500.58	SG750.54	SG750.58	SG1700.80	SG1700.84	SG1700.100	SG2500.131 DD	SG2700.100 DD	SG2700.116 DD
Wind class	IEC IIIA	SA 6.5	IEC IIIA	SA 6.5	IEC IIA	IEC IIIA	SA 6.5	SA 6.5	IEC IIA	IEC IIIA
Grid frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
Rotor diameter	54m	58m	54m	58m	80m	84m	100m	131m	100m	116m
Hub height (HH)	50m / 73m	50m / 73m	50m / 73m	50m / 73m	82m	82m	100m	120m	100m	100m
Operating data										
Average wind speed	7.5m/s	6.5m/s	7.5m/s	6.5m/s	8.5m/s	7.5m/s	6.5m/s	6.5m/s	8.5m/s	7.5m/s
Cut-in wind speed	4m/s	3.5m/s	4m/s	3.5m/s	4m/s	4m/s	3m/s	3m/s	3m/s	3m/s
Rated wind speed	11m/s	10m/s	11m/s	10m/s	11m/s	10.8m/s	10m/s	10m/s	11.3m/s	10.5m/s
Cut-out wind speed	24m/s	20m/s	24m/s	20m/s	25m/s	24m/s	20m/s	20m/s	25m/s	24m/s
Temp. range (operation)	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C	-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	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Tower										
Type	tubular steel tower	tubular steel tower	tubular steel tower	tubular steel tower	tubular steel tower	tubular steel tower	tubular steel tower	tubular steel tower	tubular steel tower	tubular steel tower
Machinery										
Drive train	3-stage gear box with coupling	3-stage gear box with coupling	3-stage gear box with coupling	3-stage gear box with coupling	3-stage gear box with coupling	3-stage gear box with coupling	3-stage gear box with coupling	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	planetary gearbox with AC servo motors	planetary gearbox with AC servo motors	planetary gearbox with AC servo motors	planetary gearbox with AC servo motors	planetary gearbox with AC servo motors	planetary gearbox with AC servo motors	planetary gearbox with AC servo motors
Yaw system	friction bearing with motor brake	friction bearing with motor brake	friction bearing with motor brake	friction bearing with motor brake	friction bearing with motor brake	friction bearing with motor brake	friction bearing with motor brake	ball bearing with hydraulic brake	ball bearing with hydraulic brake	ball bearing with hydraulic brake
Electric										
Generator	fast speed synchronous, air-cooled	fast speed synchronous, air-cooled	fast speed synchronous, air-cooled	fast speed synchronous, air-cooled	fast speed synchronous, air-cooled	fast speed synchronous, air-cooled	fast speed synchronous, air-cooled	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	full 4-quadrant, water-cooled	full 4-quadrant, water-cooled	full 4-quadrant, water-cooled	full 4-quadrant, water-cooled	full 4-quadrant, water-cooled	full 4-quadrant, water-cooled	full 4-quadrant, water-cooled

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