

Contact us

Head Office

S&G Engineering GmbH

Am Röthenbühl 34
92348 Berg

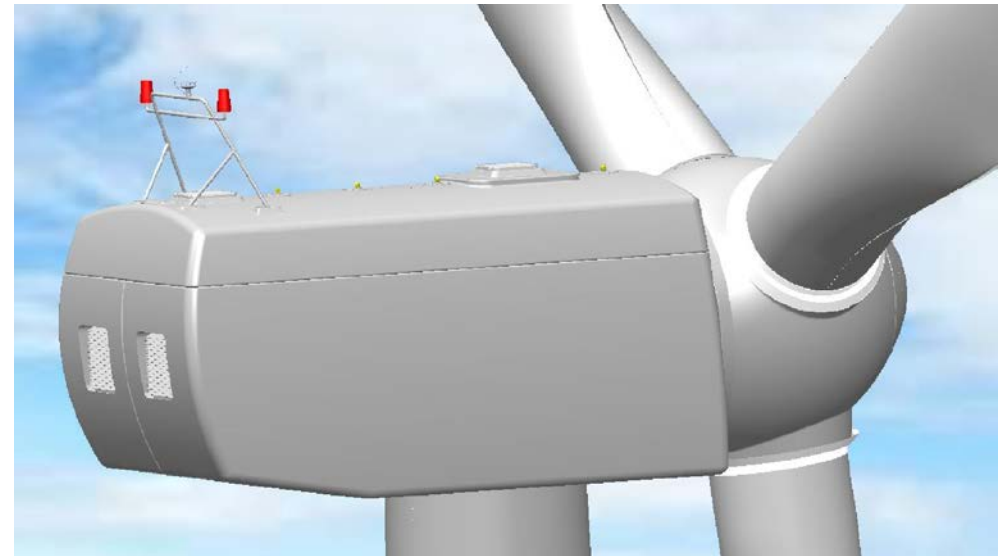
Phone +49 9189 414667
Fax +49 9189 414666
Email info@sg-engineering.com

Sales and Marketing Office

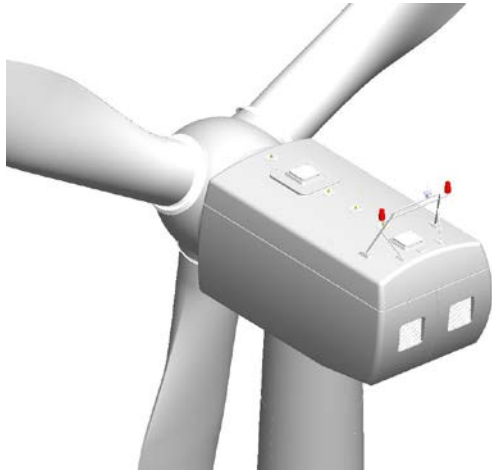
S&G Engineering GmbH

Gotenweg 32
22453 Hamburg

Phone +49 40 5518053
Fax +49 40 5554336
Email info@sg-engineering.com



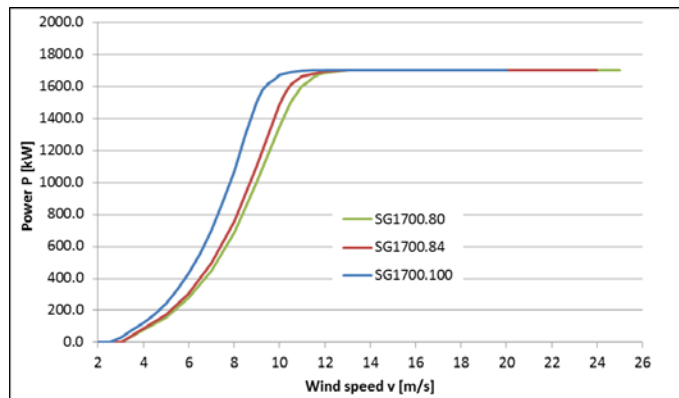
SG1700.80
SG1700.84
SG1700.100



The advantages

- permanent magnet synchronous generator
- intelligent power converter
- excellent grid connection
- well-proven drive train concept (integrated gearbox)
- easy assembling and erection
- high availability
- wind class IEC IIA, IEC IIIA and SA 6.5

The well-proven drive train concept (integrated gearbox) allows an economic design, an easy installation and high reliability throughout the lifecycle. The turbines of the 1.7MW platform are available for three different wind speeds: IEC IIA, IEC IIIA and SA 6.5. The turbine is designed for an operational temperature range of -10°C to 45°C. The three available rotor diameters in combination with the varying hub heights and the large temperature range enable a best-fit solution for every site.



Power curves of all variants



Power

1.7MW

General data

	SG1700.80	SG1700.84	SG1700.100
Turbine	SG1700.80	SG1700.84	SG1700.100
Wind class	IEC IIA	IEC IIIA	SA 6.5
Grid frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
Rotor diameter	80m	84m	100m
Hub height (HH)	82m	82m	100m

Operating data

	SG1700.80	SG1700.84	SG1700.100
Average wind speed	8.5m/s	7.5m/s	6.5m/s
Cut-in wind speed	4m/s	4m/s	3m/s
Rated wind speed	11m/s	10.8m/s	10m/s
Cut-out wind speed	25m/s	24m/s	20m/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

Type	tubular steel tower	tubular steel tower	tubular steel tower

Machinery

	SG1700.80	SG1700.84	SG1700.100
Drive train	3-stage gear box with coupling	3-stage gear box with coupling	3-stage gear box with coupling
Pitch system	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

Electric

	SG1700.80	SG1700.84	SG1700.100
Generator	fast speed synchronous, air-cooled	fast speed synchronous, air-cooled	fast speed synchronous, air-cooled
Converter	full 4-quadrant, water-cooled	full 4-quadrant, water-cooled	full 4-quadrant, water-cooled

Variants of 1.7MW platform