

S&G Engineering

The Wind Turbine Technology Provider

We herewith present our newest wind turbine designs for technology transfer

- S-Class: 50 -100 kW (Direct Drive – PM Generator)
- M-Class: 500-750 kW (Gearbox and PM Generator)
- L-Class: 1700 kW (Gearbox and PM Generator)
- XL-Class : 2500-3000 kW (Direct Drive – PM Generator)

All turbines are designed according to the valid international standards (IEC, GL), long term tested and proven in the field

S&G is the technology provider with the broadest range of wind turbine technologies from 50 kW to 3 MW

ALL DESIGNS ARE AVAILABLE FOR LICENSING

Contact us

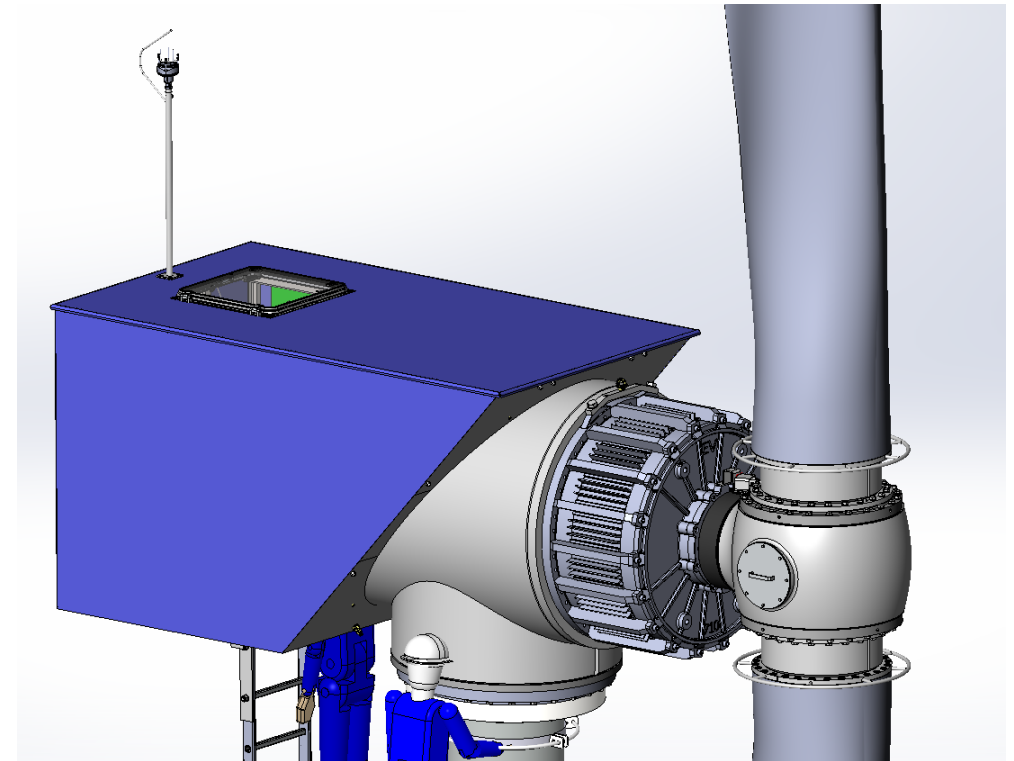
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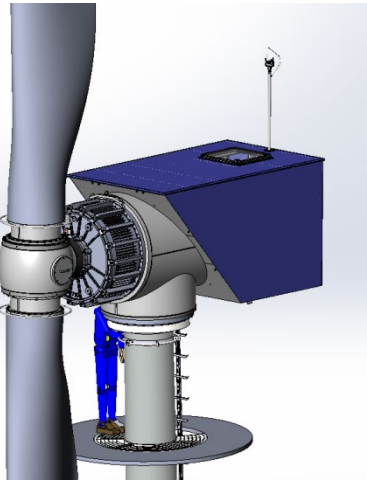
Product Family: 60-100kW



S-Class

SG60.28
SG100.28

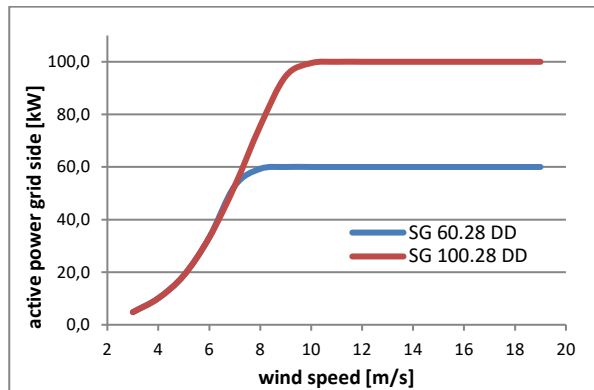
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The advantages

- Permanent magnet synchronous generator
- Intelligent power converter
- Excellent grid connection
- Easy assembling and erection
- Low maintenance and lifecycle costs
- Noise-optimized design
- High availability
- Wind class IEC IIIA
- 60kW and 100kW version

The innovative gearless drive train concept (direct drive) enables excellent efficiency, especially in partial load range and ease of service throughout the lifecycle. The turbine of the 60kW/ 100kW platform is available for wind speeds: IIIA. The turbine is designed for an operational temperature range of -10°C to 45°C.



Power curve



Power

60kW

100kW

General data

Turbine	SG60.28	SG100.28
Wind class	IEC IIIA	IEC IIIA
Grid frequency	50Hz / 60Hz	50Hz / 60Hz
Rotor diameter	28m	28m
Hub height (HH)	37.36m	37.36m

Operating data

Average wind speed	7.5m/s	7.5m/s
Cut-in wind speed	3.0m/s	3.0m/s
Rated wind speed	7.5m/s	8.5m/s
Cut-out wind speed	19m/s	19m/s
Temp. range (operation)	-10°C to +45°C	
Temp. range (survival)	-20°C to +50°C	

Tower

Type	Freestanding conical tubular concrete tower
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Machinery

Drive train	Direct drive
Pitch system	Common hydraulic piston in nacelle
Yaw system	roller bearing with gear drives and motor brake

Electric

Generator	low speed synchronous, air-cooled
Converter	full 4-quadrant, air-cooled

Variants of 60kW/100kW platform

