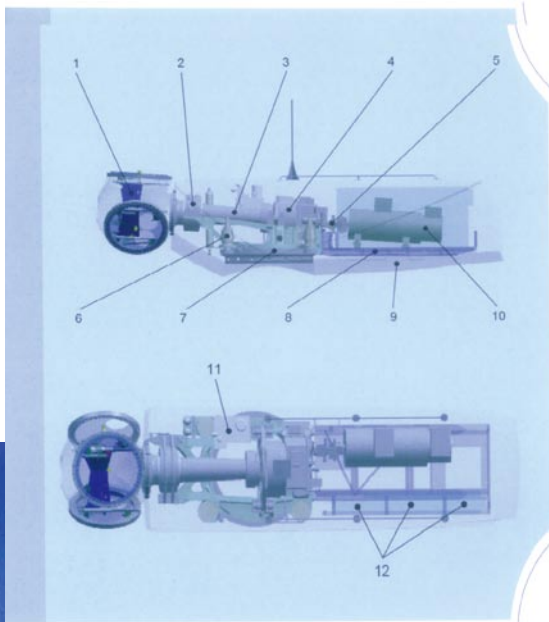


SEG-1250

SEG-1250, which is a three-blade upwind turbine with pitch control and horizontal axis, has a rated power of 1250kW and can be supplied with different rotor diameters and hub heights to suit the particular site conditions and planning requirements.

The outstanding features of SEG-1250 are effective utilization of available wind, quiet operation, good grid compatibility, longevity and attractive design. The turbine operates with variable rotor speed and is capable of producing electric power efficiently at low wind speeds, and utilizing the energy of gust without overloading the grid or turbine components. The combination of a double-fed induction generator with a state-of-art IGBT convection isolates grid voltage and frequency from the generator speed thus enabling connection of turbines to any power networks.



- 1 Rotor Hub
- 2 Main Bearing
- 3 Rotor Shaft
- 4 Gearbox
- 5 Disc Brake
- 6 Yaw Drive
- 7 Yaw Bearing
- 8 Base Frame
- 9 Nacelle Housing
- 10 Generator
- 11 Hydraulic Unit
- 12 Control Cabinet



General Technical Data

Item	Unit	Value	
Type		SEG-1250	
Rated Power	KW	1250	
Wind Zone		IEC II A	IEC III A
Rotor Diameter	M	62	64
Hub Height	M	65	68/91.5
Cut-in Wind Speed	m/s	2.5	2.8
Nominal Wind Speed	M/s	12.5	12.3
Cut-out Wind Speed	M/s	25	23
Survival Wind Speed (5s average value)	M/s	55.3	48.9/50.5
Rated Speed of Rotor	1/min	22.4	21.1
Rotational Range	1/min	13.9-25.9	13.2-24.5
Speed Control		Pitch Control	
Gearbox			
Type		One planetary stage, two parallel stage	
Transmission Ratio		1: 50.4	1: 53
Generator			
Type		Double-fed induction Generator	
Nominal Voltage	V	690	
Grid Frequency	Hz	50	
Brake System			
Main brake		Electric pitch system	
Parking Brake		Disk Brake	
Weight			
Nacelle	ton	52	
Rotor	ton	24.3	26
Tower	ton	82	88/129

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