

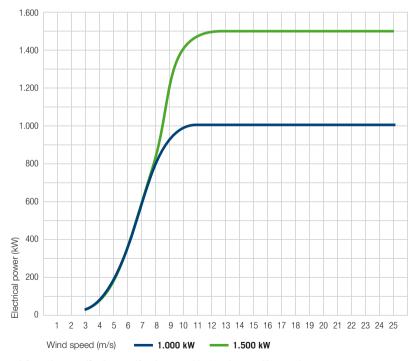


LTW90 1.000 / 1.500 kW

DESIGN DATA		
Hub height	80 m	
Rated power	1.000 / 1.500 kW	
Tower	Steel	
Cut-in wind speed	3 m/s	
Cut-out wind speed	25 m/s	
Yaw control system	Active, electrical	
Wind class	IIIA	
ROTOR		
Number of blades	3	
Rotor diameter	90,3 m	
Swept area	6.404 m ²	
Rotational speed	15 rpm	
Tip speed	71 m/s	
Blade material	GFRP-UP	
Power and rotor speed control	Active pitch control	
GENERATOR		
Туре	Permanent Magnet Direct Drive Synchronous Machine	
Stator Winding	Modular coils with tooth concentrated winding, exchangeable	
Rotor Topology	Modular Permanent Magnets with flux concentration, exchangeable	
Speed Range	Variable Low Speed Machine	
Protection class	IP55	

CONTROL & SAFETY SYSTEM		
Main brake	Aerodynamic, indipendent pitch control	
Service brake	Hydraulic	
Rotor lock	Hydraulic	
Remote control	Leitwind - SCADA	
POWER ELECTRONIC		
Converter type	4Q full power - 3 phase IGBT	
Converter rated voltage and frequency (grid-side)	690 V ±10%, 50-60 Hz ±5%	
Converter power factor (grid-side)	0,95 ind - 1 - 0,95 cap for reactive power compensation control, grid voltage control capability	
Cooling	Air cooled rotor and water cooled stator	
Power quality and Grid codes	High quality output power in accordance with major grid code requirements. Integration into various grid systems worldwide. In compliance with: - Grid codes CEI 0-16, TERNA, e-on (incl. LVRT) - Power quality measurements according to IEC 61400-21 - Emission limits IEC 61800-3	
Arrangement	Single or multiple converter	

Power curve



Wind speed (m/s)	Electrical power (kW)	
3,0	39	39
4,0	107	107
5,0	216	216
6,0	379	379
7,0	602	602
8,0	869	888
9,0	994	1.221
10,0	1.000	1.431
11,0	1.000	1.499
12,0	1.000	1.500
13,0	1.000	1.500
14,0	1.000	1.500
15,0	1.000	1.500
16,0	1.000	1.500
17,0	1.000	1.500
18,0 - 25,0	1.000	1.500

Information, specifications and/or pictures subject to change without notice.

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