



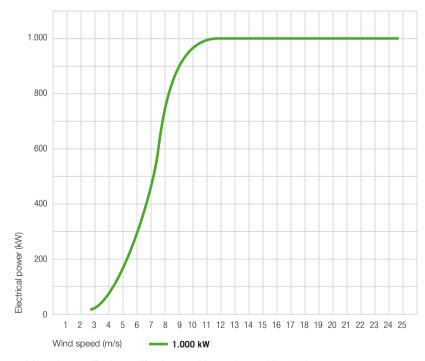
LTW86 1.000 kW

Hub height	80 / 97,5 / 100 m
Rated power	1.000 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/IIIB
ROTOR	
Number of blades	3
Rotor diameter	86,3 m
Swept area	5.849 m ²
Rotational speed	16,3 rpm
Tip speed	74 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	Electrical
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

Power curve



Wind speed (m/s)	Electrical power (kW)
3,0	20
4,0	69
5,0	173
6,0	314
7,0	512
8,0	762
9,0	922
10,0	986
11,0	1.000
12,0	1.000
13,0	1.000
14,0	1.000
15,0	1.000
16,0	1.000
17,0	1.000
18,0 - 25,0	1.000

Multiple converter

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

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