

LTW77 1.500 kW

Type Certificate GL 2003





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DESIGN DATA

Hub height	61,5 / 65 / 80 m
Rated power	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	IIA

ROTOR

Number of blades	3
Rotor diameter	76,6 m
Swept area	4.608 m ²
Rotational speed	17,8 rpm
Tip speed	71 m/s
Blade material	GFRP-UP
Power and rotor speed control	Active pitch control

GENERATOR

Type	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

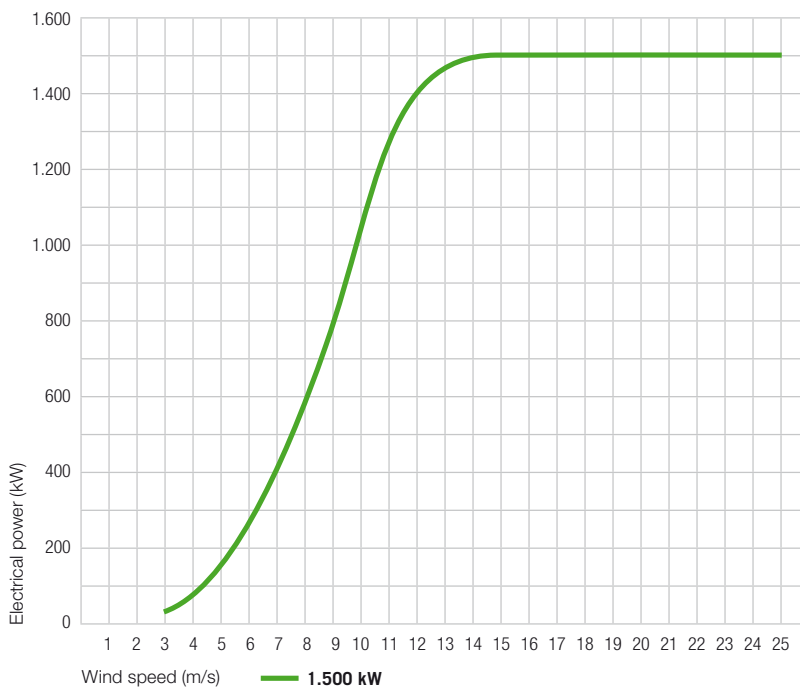
CONTROL & SAFETY SYSTEM

Main brake	Aerodynamic, independent 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 \pm 10%, 50-60 Hz \pm 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, water or air 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	Multiple converter

Power curve



Wind speed (m/s)	Electrical power (kW)
3,0	24
4,0	67
5,0	147
6,0	264
7,0	424
8,0	605
9,0	823
10,0	1.062
11,0	1.294
12,0	1.420
13,0	1.467
14,0	1.488
15,0	1.500
16,0	1.500
17,0	1.500
18,0 - 25,0	1.500

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

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