

LTW77 800 kW / 850 kW / 1.000 kW





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DESIGN DATA

Hub height	61,5 / 65 / 80 m
Rated power	800 / 850 / 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	IIA/IIA+*

ROTOR

Number of blades	3
Rotor diameter	76,6 m
Swept area	4.608 m ²
Rotational speed	18 rpm
Tip speed	72 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

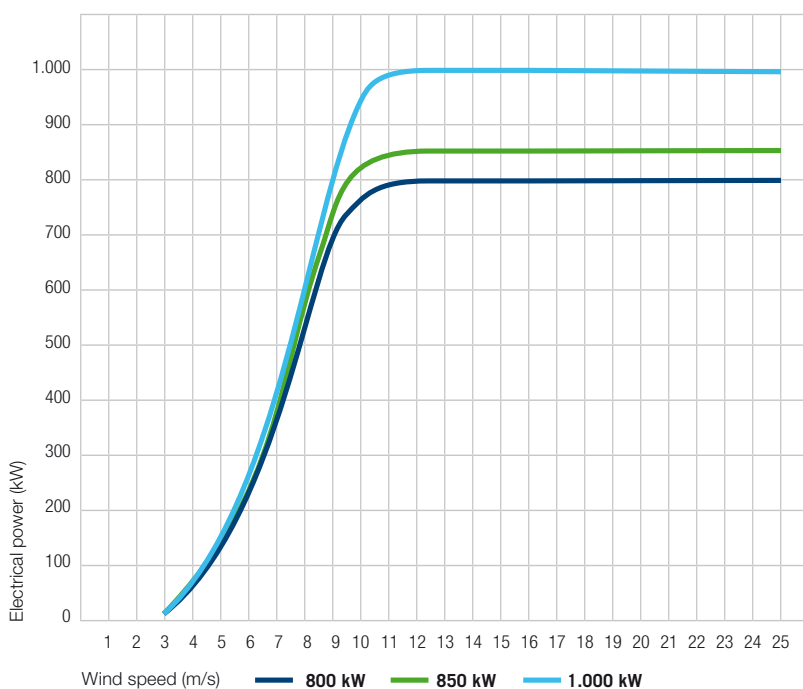
Main brake	Aerodynamic, independent pitch control
Service brake	Electrical
Rotor lock	Hydraulic
Remote control	Leitwind - SCADA

POWER ELECTRONIC

Converter type	4Q full power - 3 phase IGBT
Converter rated voltage and frequency (grid-side)	690 V ±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, 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. Compliant 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

- *The definition of IIA+ wind class means:
- Average wind speed according to wind class III
 - Reference wind speed according to wind class II
 - Turbulence according to wind class A

Power curve



Wind speed (m/s)	Electrical power (kW)		
3,0	24	24	24
4,0	69	69	69
5,0	150	150	150
6,0	269	269	269
7,0	433	433	433
8,0	605	617	617
9,0	736	768	839
10,0	788	834	952
11,0	800	850	1.000
12,0	800	850	1.000
13,0	800	850	1.000
14,0	800	850	1.000
15,0	800	850	1.000
16,0	800	850	1.000
17,0	800	850	1.000
18,0 - 25,0	800	850	1.000

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

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