

FACTS AND FIGURES

N100/2500

Operating data

Rated power	2,500 kW
Cut-in wind speed	Approx. 3 m/s
Cut-out wind speed	Approx. 20 m/s

Rotor

Diameter	100 m
Swept area	7,854 m ²
Speed	9.6 – 14.9 rpm
Max. tip speed	Approx. 77 m/s
Rotor bearing	Spherical roller bearing
Power regulation	Individual electromechanically driven pitch system

Gearbox

Type	Two-stage planetary gearbox with one spur-gear stage or differential gearbox
Ratio	1 : 77.5 (50 Hz) / 1 : 93.2 (60 Hz)

Generator

Type	Double-fed asynchronous generator with cascade converter, liquid-cooled
Voltage (frequency)	660 V (50/60 Hz)
Speed	740 – 1,300 rpm (50 Hz) / 890 – 1,560 rpm (60 Hz)

Yaw system

Drive	4 asynchronous motors with integrated brakes
Brake	Hydraulic disk brake

Control

Type	Nordex Control™ (PLC) with remote control, remote monitoring and data reporting
Grid connection	Via IGBT converter
Visualisation	PC in switch cabinet, web-based access from any PC, laptop connection at base of tower and in nacelle

Brake system

Primary brake	Rotor blade pitch (3 independent systems with emergency power supply)
Secondary brake	Hydraulic disk brake

Lightning protection Fully compliant with EN 62305

Tower

Type	Modular tubular steel tower Hybrid tower (140 m)
Rotor hub height/Certificates	80 m IEC 3a 100 m IEC 3a, DIBt 2 140 m IEC 3a, DIBt 2

POWER CURVE N100/2500

Wind speed (m/s)	Power (kW)
3,5	34
4,0	88
4,5	155
5,0	237
5,5	333
6,0	448
6,5	582
7,0	738
7,5	919
8,0	1.123
8,5	1.351
9,0	1.604
9,5	1.845
10,0	2.043
10,5	2.200
11,0	2.321
11,5	2.409
12,0	2.467
12,5	2.495
13,0	2.500
13,5	2.500
14,0	2.500
14,5 - 20,0	2.500

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