

# FACTS AND FIGURES

## N80/2500

### Operating data

Rated power	2,500 kW
Cut-in wind speed	Approx. 3 m/s
Cut-out wind speed	Approx. 25 m/s

### Rotor

Diameter	80 m
Swept area	5,026 m <sup>2</sup>
Speed	10.8 –18.9 rpm
Max. tip speed	Approx. 80 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	1:68.3

### Generator

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

### Yaw system

Drive	3–4 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
Rotor hub height/Certificates	60 m IEC 1a 70 m IEC 1a 80 m IEC 1a, DIBt 3

## POWER CURVE N80/2500

Wind speed (m/s)	Power (kW)
3,5	12
4,0	48
4,5	93
5,0	147
5,5	212
6,0	288
6,5	376
7,0	479
7,5	596
8,0	728
8,5	872
9,0	1.026
9,5	1.189
10,0	1.358
10,5	1.530
11,0	1.703
11,5	1.873
12,0	2.024
12,5	2.148
13,0	2.250
13,5	2.331
14,0	2.394
14,5	2.440
15,0	2.472
15,5	2.491
16,0	2.499
16,5 - 25,0	2.500

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