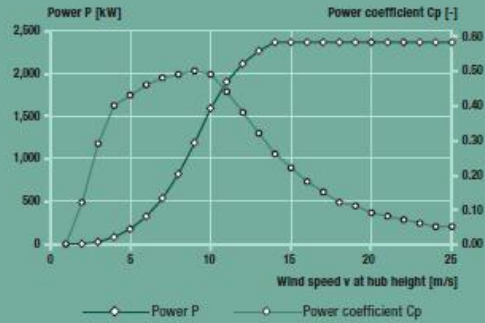


E82

2,300 kW



Calculated power curve



Wind [m/s]	Power P [kW]	Power coefficient Cp [-]
1	0.0	0.00
2	3.0	0.12
3	25.0	0.29
4	82.0	0.40
5	174.0	0.43
6	321.0	0.46
7	532.0	0.48
8	815.0	0.49
9	1,180.0	0.50
10	1,580.0	0.49
11	1,890.0	0.44
12	2,100.0	0.38
13	2,250.0	0.32
14	2,350.0	0.26
15	2,350.0	0.22
16	2,350.0	0.18
17	2,350.0	0.15
18	2,350.0	0.12
19	2,350.0	0.11
20	2,350.0	0.09
21	2,350.0	0.08
22	2,350.0	0.07
23	2,350.0	0.06
24	2,350.0	0.05
25	2,350.0	0.05

$\rho = 1,225 \text{ kg/m}^3$

For more information on the ENERCON power curve, please see the last page.

Technical specifications E-82 E2

Rated power: 2,300 kW
 Rotor diameter: 82 m
 Hub height: 78 m / 85 m / 98 m / 108 m / 138 m
 Wind zone (DIBt): WZ III
 Wind class (IEC): IEC/NVN IIA

WEC concept:
 Gearless, variable speed
 Single blade adjustment

Rotor
 Type: Upwind rotor with active pitch control
 Rotational direction: Clockwise
 No. of blades: 3
 Swept area: 5,281 m²
 Blade material: GRP (epoxy resin);
 Built-in lightning protection
 Rotational speed: Variable, 6–18 rpm
 Pitch control: ENERCON single blade pitch system;
 one independent pitch system per rotor blade with allocated emergency supply

Drive train with generator

Hub: Rigid
 Main bearing: Double-row tapered / cylindrical roller bearings
 Generator: ENERCON direct-drive annular generator

Grid feed: ENERCON inverter
Brake systems: – 3 independent pitch control systems with emergency power supply
 – Rotor brake
 – Rotor lock

Yaw system: Active via yaw gear, load-dependent damping
Cut-out wind speed: 28–34 m/s (with ENERCON storm control*)

Remote monitoring: ENERCON SCADA

*For more information on the ENERCON storm control feature, please see the last page.



- 1 Main carrier
- 2 Yaw drive
- 3 Annular generator
- 4 Blade adapter
- 5 Rotor hub
- 6 Rotor blade