



E-103

2,350 kW



www.enercon.de

 **ENERCON**
ENERGY FOR THE WORLD

TECHNICAL DATA

E-103

Last updated: 04/2019. Technical information subject to change.

GENERAL

Nominal power	2,000 kW / 2,350 kW
Wind class (IEC)	IEC IIIA
Wind zone (DIBt)	WZ 2 GK I + II
Turbine concept	gearless, variable speed, full power converter
Design service life	25 years
Cut in wind speed	2.5 m/s
Cut out wind speed	34 m/s
Extreme wind speed at hub height (3-second gust)	52.5 m/s
Rotational speed	4.8 - 14.4 rpm (2,000 kW) 4.8 - 14.6 rpm (2,300 kW)
Ambient temperature for normal operation	-10 °C to +40 °C
Extreme temperature range	-20 °C to +50 °C
Grid feed / control system	ENERCON inverter
Grid frequency	50 Hz / 60 Hz
Sound power level	90.5 - 105.0 dB(A)* Yield and noise-optimised operation. Further modes on request.

ROTOR

Rotor diameter	103 m
Swept area	8,332 m ²
Type	upwind rotor with active pitch control

TOWER

Hub height	IEC IA	IEC IIA	IEC IIIA
			78 m
			85 m
			98 m
			108 m
			138 m

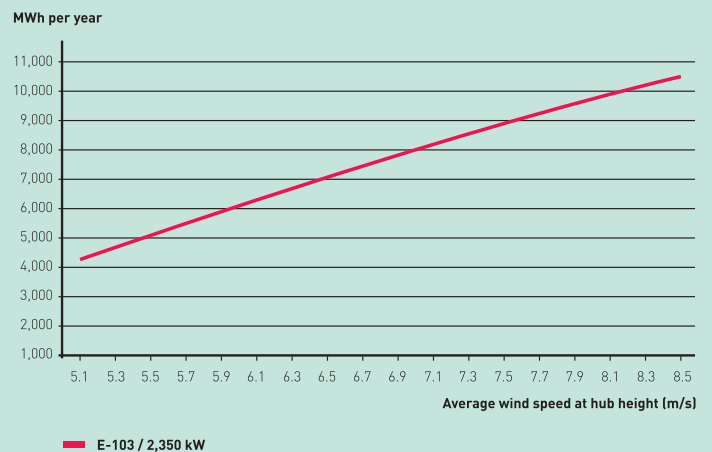
GENERATOR

Type	directly driven, separately excited annular generator
Cooling system	air cooling system

FEATURES

	STANDARD	OPTIONAL
FACTS and transmission	X	
ENERCON SCADA	X	
ENERCON storm control	X	
Low radar reflectivity rotor blades	X	
Ice detection system	X	
Power curve method		
Additional ice detection system		X
Blade heating system		X
Hot-Climate		X
Shadow shutdown		X
ENERCON SCADA bat protection		X
STATCOM		X
Inertia Emulation		X
Sector management for wind farms		X
Beacon management for wind farms		X

ANNUAL ENERGY YIELD



* dependent on hub height