

TECHNICAL DATA

E-160 EP5

Last updated: 05/2019. Technical information subject to change.

GENERAL

Nominal power	4,600 kW
Wind class (IEC)	IEC IIIA
Turbine concept	gearless, variable speed, full power converter
Design service life	20 years
Cut in wind speed	2.5 m/s
Cut out wind speed	22 m/s
Extreme wind speed at hub height (3-second gust)	52.5 m/s
Ambient temperature for normal operation	-10 °C / -20 °C to +30 °C / +40 °C
Extreme temperature range	-20 °C to +50 °C
Grid feed / control system	IGBT-Control
Grid frequency	50 Hz / 60 Hz
Sound power level	107.0 dB(A)* Yield and noise-optimised operation. Further modes on request.

ROTOR

Rotor diameter	160 m
Type	upwind rotor with active pitch control

TOWER

Hub height	IEC IA	IEC IIA	IEC IIIA
			120 m
			166 m

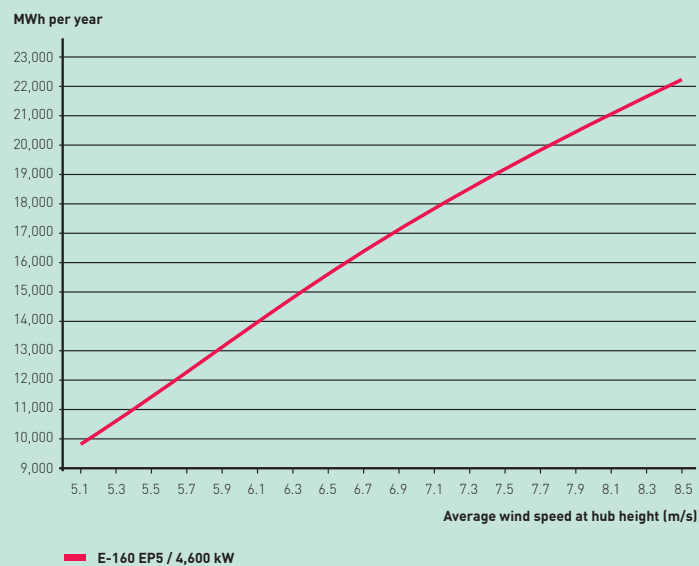
GENERATOR

Type	multi-pole synchronous generator (PMG)
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	
Shadow shutdown	X	
Ice detection system		X
Blade heating system		X
Sector management for wind farms		X
Beacon management for wind farms		X

ANNUAL ENERGY YIELD



* dependent on hub height