

V90-3.0 MW

Exceptional performance and
reliability at high-wind-speed sites



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Vestas

TECHNICAL DATA FOR V90-3.0 MW

Power regulation	pitch regulated with variable speed
Operating data	
Rated power	3,000 kW
Cut-in wind speed	3.5 m/s
Rated wind speed	15 m/s
Cut-out wind speed	25 m/s
Wind Class - IEC	IEC IA (high wind) and IEC IIA (medium wind)
Operating temperature range	standard range -20°C to 40°C. low temperature option: -30°C to 40°C

Sound power (10 m above ground, hub height 80 m, standard air density 1,225 kg/m ³)	
4 m/s	97.9 dB(A)
5 m/s	100.9 dB(A)
6 m/s	104.2 dB(A)
7 m/s	106.1 dB(A)
8 m/s	107 dB(A)
9 m/s	106.9 dB(A)

Rotor	
Rotor diameter	90 m
Swept area	6,362 m ²
Nominal revolutions	16.1 rpm
Operational interval	8.6 - 18.4 rpm
Air brake	full blade feathering with three pitch cylinders

Tower	
Type	tubular steel tower
Hub heights	80 m and 90 m (IEC IA) 105 m (IEC IIA)

Electrical	
Frequency	50 Hz
Generator type	4-pole asynchronous with variable speed

Gearbox	
Type	two planetary stages and one helical stage

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Main dimensions

Blade	
Length	44 m
Max. chord	3.5 m
Weight	6,700 kg
Nacelle	
Height for transport	4 m
Length	9.65 m
Width	3.65 m (3.85 m installed)
Weight	70 metric tonnes
Hub incl. nose cone	
Diameter	3.6 m
Max. width	4.2 m
Length	4.4 m
Weight	22 metric tonnes
Tower	
80 m	
Weight	145 metric tonnes
90 m	
Weight	205 metric tonnes
105 m	
Weight	255 metric tonnes
Offshore	site specific towers

Power curve V90-3.0 MW

Noise reduced sound power modes are available.

