

TECHNICAL DATA FOR V90-1.8/2.0 MW

Power regulation	pitch regulated with variable speed	
Operating data	IEC IIA	IEC IIIA
Rated power	1,800 kW	2,000 kW
Cut-in wind speed	4 m/s	
Rated wind speed	12 m/s	
Cut-out wind speed	25 m/s	
Frequency	50 Hz/60 Hz	
Operating temperature	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 air density 1,225 kg/m ³)		
4 m/s	94.4 dB(A)	
5 m/s	99.4 dB(A)	
6 m/s	102.5 dB(A)	
7 m/s	103.6 dB(A)	
> 8 m/s	104 dB(A)	
Rotor		
Rotor diameter	90 m	
Swept area	6,362 m ²	
Nominal revolutions	14.5 rpm	
Operational interval	9.3 - 16.6 rpm	
Air brake	full blade feathering with 3 pitch cylinders	
Tower		
Type	tubular steel tower	
Hub heights	80 m, 95 m and 105 m (IEC IIA) 95 m, 105 m and 125 m (DIBt II)	

Generator	50 Hz	60Hz
Type	4-pole asynchronous with variable speed	6-pole asynchronous with variable speed
Nominal output	1,800 kW/ 2,000 kW	1,800 kW

Gearbox	
Type	3-stage planetary/helical

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VCS turbines are not available in the USA or Canada.

Main dimensions

Blade

Length	44 m
Max. chord	3.5 m
Weight	6,700 kg

Nacelle

Height for transport	4 m
Height installed (including CoolerTop™)	5.4 m
Length	10.4 m
Width	3.4 m
Weight	70 metric tonnes

Hub

Max. diameter	3.3 m
Max. width	4 m
Length	4.2 m
Weight	18 metric tonnes

Tower

80 m

Weight	148 metric tonnes
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95 m

Weight	206 metric tonnes
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105 m

Weight	245 metric tonnes
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125 m

Weight	335 metric tonnes
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Power curve V90-1.8/2.0 MW

Noise reduced sound power modes are available.

