

V136-4.2 MW™ IEC IIB/IEC S

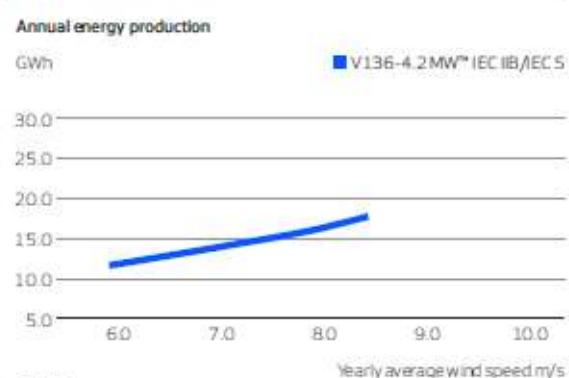
Power regulation	Pitch regulated with variable speed
Operating data	
Rated power	4,000kW/4,200kW
Cut-in wind speed	3m/s
Cut-out wind speed	25m/s
Re-cut-in wind speed	23m/s
Wind class	IEC IIB/IEC S
Standard operating temperature range from -20°C* to +45°C with de-rating above 30°C (4,000kW)	
*Subject to different temperature options	
Sound power	
Maximum	103.9dB(A)*
*Sound Optimised Modes dependent on site and country	
Rotor	
Rotor diameter	136m
Swept area	14,527m²
Air brake	full blade feathering with 3 pitch cylinders
Electrical	
Frequency	50/60Hz
Converter	full scale
Gearbox	
Type	two planetary stages and one helical stage
Tower	
Hub heights	105m (IEC) 112m (IEC/D1Bt) 117m (IEC) 149m (D1Bt) 166m (D1Bt)
Nacelle dimensions	
Height for transport	3.5m
Height installed (incl. CoolerTop*)	8.4m
Length	12.96m
Width	3.98m
Hub dimensions	
Max. transport height	3.5m
Max. transport width	3.7m
Max. transport length	5.5m

Blade dimensions	
Length	66.7m
Max. chord	4.1m
Max. weight per unit for transportation	70 metric tonnes

Turbine options	
<ul style="list-style-type: none"> - 4.2 MW and 4.5 MW Power Optimised Modes (site specific) - High Wind Operation - Load Optimised Modes down to 3.6 MW - Condition Monitoring System - Service Personnel Lift - Vestas Anti-Icing System - Vestas Ice Detection™ - Low Temperature Operation to -30°C - Fire Suppression - Shadow detection - Vestas Bat Protection System - Aviation Lights - Aviation Markings on the Blades - Vestas IntelliLight* - Nacelle Hatch for Air Inlet 	

Sustainability	
Carbon Footprint	5.6g CO ₂ e/kWh
Return on energy break-even	6.1 months
Lifetime return on energy	40 times
Recyclability rate	87.4%

Configuration: 112m hub height and wind class IEC S. Depending on site specific conditions. Metrics are based on an externally reviewed Life Cycle Assessment available on vestas.com



Assumptions
One wind turbine, 1.00% availability 0% losses, k factor = 3
Standard air density = 1.225, wind speed at hub height