V150-4.2 MW™ IEC IIIB/IEC S
Facts & figures

POWER REGULATION	Pitch regulated with variable speed

OPERATING DATA

Rated power	4,000 kW/4,200 kW
Cut-in wind speed	3m/s
Cut-out wind speed	22.5m/s
Re cut-in wind speed	20m/s
Wind class	IEC IIIB/IEC S

Standard operating temperature range from -20°C* to +45°C with de-rating above 30°C (4,000 kW)

*Subject to different temperature options

SOUND POWER

Maximum	104.9dB(A)*

*Sound Optimised modes dependent on site and country

ROTOR

Rotor diameter	150m
Swept area	17,671m²
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	Site and country specific

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	73.7m
Max. chord	4.2m
Max. weight per unit for transportation	70 metric tonnes

TURBINE OPTIONS

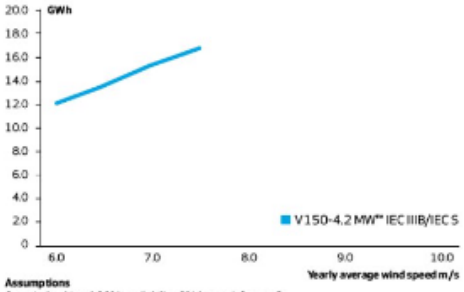
- Load Optimised Modes down to 3.6 MW
- Condition Monitoring System
- Service Personnel Lift
- Vestas Anti-Icing System™
- Vestas Ice Detection
- Low Temperature Operation to - 30°C
- Fire Suppression
- Shadow detection
- Vestas Bat Protection System
- Aviation Lights
- Aviation Markings on the Blades
- Vestas InteliLight®

SUSTAINABILITY

Carbon Footprint	7.3g CO_2e/kWh
Return on energy break-even	7.6 months
Lifetime return on energy	31 times
Recyclability rate	88.1%

Configuration 155m hub height and wind class IECIIIB. Depending on site-specific conditions. Metrics are based on a preliminary stream-lined analysis. An externally-verified Lifecycle Assessment will be made publicly available on vestas.com once finalised.

ANNUAL ENERGY PRODUCTION



Assumptions
One wind turbine, 100% availability, 0% losses, k factor = 2, Standard air density = 1.225, wind speed at hub height

V150-4.5 MW™ IEC IIIB/IEC S
Facts & figures

POWER REGULATION	Pitch regulated with variable speed

OPERATING DATA

Rated power	4,500 kW
Cut-in wind speed	3m/s
Cut-out wind speed	24.5m/s
Re cut-in wind speed	22.5m/s
Wind class	IEC S

Standard operating temperature range from -30°C* to +45°C with de-rating above 23°C

*Subject to different temperature options

SOUND POWER

Maximum	105.0dB(A)*

*Sound Optimised modes dependent on site and country

ROTOR

Rotor diameter	150m
Swept area	17,671m²
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	Site and country specific

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	73.7m
Max. chord	4.2m
Max. weight per unit for transportation	70 metric tonnes

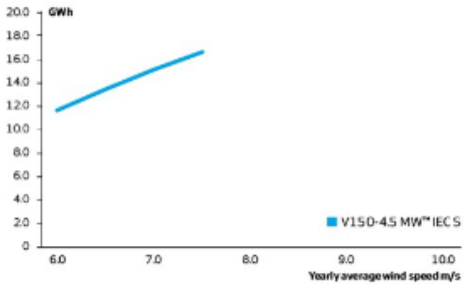
TURBINE OPTIONS

- 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 InteliLight®

SUSTAINABILITY

Metrics pending

ANNUAL ENERGY PRODUCTION



Assumptions
One wind turbine, 100% availability, 0% losses, k factor = 2, Standard air density = 1.225, wind speed at hub height