

XANT

WIND POWER MADE EASY



XANT M-24 (95 kW) - Class III^A

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WIND TURBINE RATING

Rated electrical power	95 kW
Power factor	0.9 inductive - 0.9 capacitive
Cut-in wind speed	3 m/s
Survival wind speed	52.5 m/s
Electrical output	400 VAC, 50 - 60 Hz

GENERAL CONFIGURATION

Rotation axis	Horizontal
Rotor Orientation	Downwind
Rotor Diameter	24 m
Number of blades	3
Drive train	Direct-drive permanent-magnet generator
Converter	Full-power electronic converter

SAFETY & CONTROL SYSTEMS

Power regulation	Variable speed, stall with aeroelastically-tailored blades
Braking systems	Electrical brake and electromechanical brake
Monitoring system	Webbased HMI
Controller	Industrial PLC

PRODUCT MASS & FOOTPRINT

Tower top mass	7.5 tons
Total mass	14 tons (freestanding tower)
Footprint	+/- 15 m ² (freestanding tower)
Concrete volume	50 m ³

APPROVALS, CERTIFICATES AND DESIGN CODES

Turbine Class	IEC 61400-1 Class III ^A
Certification	Design compliance by DNV-GL

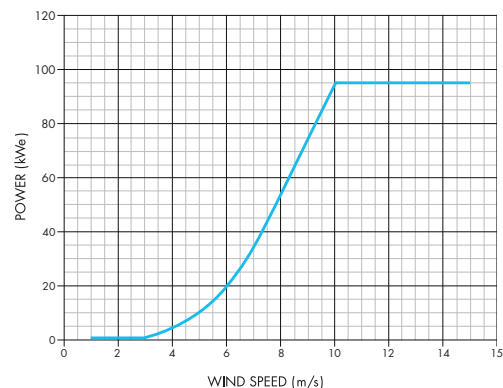
TOWER

Type	Tubular freestanding or tubular guyed tower
Hub height	23 / 31.5 / 38 m *

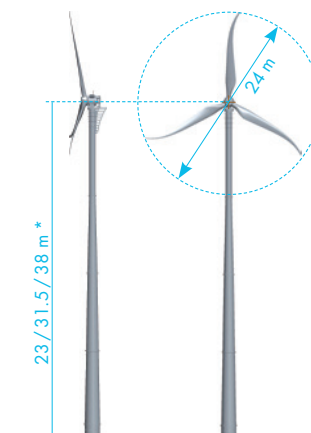
TRANSPORT AND INSTALLATION

Transport	40-feet high-cube ISO container
Erection	Gin pole with reeving systems or crane

POWER CURVE



Average Wind Speed (m/s)	Annual Energy Yield (MWh)
3.0	41.4
3.5	69.0
4.0	104.0
4.5	146.0
5.0	188.7
5.5	234.0
6.0	278.6
6.5	321.1
7.0	360.3
7.5	395.6



* other heights available upon request