

XANT

WIND POWER MADE EASY



XANT M-21 (100 kW) - Class I^A

XANT N.V. | Gentsesteenweg 224 - 8530 Harelbeke, Belgium
Tel. + 32 56 707 055 | info@xant.eu | www.xant.eu

WIND TURBINE RATING

Rated electrical power	100 kW
Power factor	0.9 inductive - 0.9 capacitive
Cut-in wind speed	3 m/s
Survival wind speed	70 m/s
Electrical output	400 VAC, 50 - 60 Hz

GENERAL CONFIGURATION

Rotation axis	Horizontal
Rotor Orientation	Downwind
Rotor Diameter	21 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 I ^A
Certification	Design compliance by DNV-GL

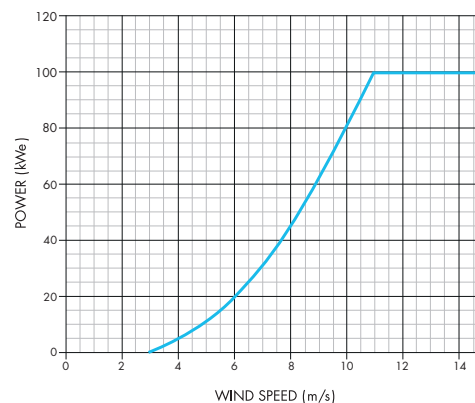
TOWER

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

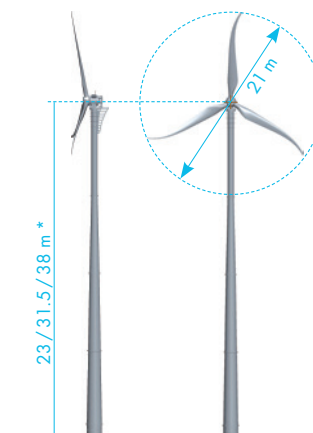
TRANSPORT AND INSTALLATION

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)
4.0	90.5
4.5	126.3
5.0	166.4
5.5	209.0
6.0	252.2
6.5	294.3
7.0	334.1
7.5	370.7
8.0	403.6
8.5	432.5
9.0	457.4
9.5	478.3
10.0	495.3



* other heights available upon request