



Small wind turbines



TUGE 10

DATASHEET

TUGE 10 is a Class 1 type tested small wind turbine designed and produced in Estonia.

Our competitive advantage is extra safety combined with minimal maintenance and high return on investment.

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Operating parameters

Maximum power	9.9 kW
Nominal rpm	69
Nominal wind speed	11 m/s

Dimensions

Hub height	18 or 22m
Rotor diameter	10.2 m
Rotor area	82 m ²

Environmental conditions

Active wind range	3-25 m/s
Survival wind speed	50 m/s
Operational temperature	-25...+60°C
AWEA rated sound level (Intertek report 103254243CRT-004)	43.7 dB(A)

Control

stall, active inverter, active dump load, tip-brake, active yaw, rotor brake

Blades

from fiber glass with fail-safe tip-brakes by Olsen Wings

Rotor brake

fail-safe electromagnetic brake by Intorq

Yaw

electric drive with encoder

Generator

permanent magnet synchronous generator

Inverter

active inverter with TMC3 controller and online SCADA by Orbital

Tower

tilt-up steel tower in 3 parts and base section

Maintenance

once in every two years due to automatic lubrication system by SKF

Certification

Type tested according to IEC61400-2/AWEA9.1 by Intertek

m/s	kW	kWh
5	2.08	25 867
6	4.22	35 012
7	6.20	42 011
8	7.69	46 950
9	8.91	50 217
10	9.50	52 176
11	9.43	53 094

More info: www.tuge.ee/tuge10