



TUGE 10

DATASHEET

TUGE 10 is a Class1 small wind turbine designed and produced in Estonia.

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

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OPERATING PARAMETERS

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

DIMENSIONS

Hub height	18 or 22 m
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

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

IEC61400-2 certification in progress by Intertek

M/S	KW	KWH
5	2.43	27 597
6	4.20	36 261
7	6.37	42 808
8	7.85	47 395
9	8.78	50 423
10	9.36	52 247
11	9.82	52 995