



# TUGE 10P

DATASHEET

TUGE 10P is a Class 1 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	15 kW
Nominal rpm	71
Nominal wind speed	11 m/s

## Dimensions

Hub height	18 or 22m
Rotor diameter	10.2 m
Rotor area	82 m <sup>2</sup>

## Environmental conditions

Active wind range	3-25 m/s
Survival wind speed	50 m/s
Operational temperature	-25...+40°C



## Control

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

## Blades

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

## Rotor brake

fail-safe electromagnetic brake by Intorq

## Yaw

free

## Generator

asynchronous, planetary gearbox

## 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

m/s	kWh
3.5	13 100
4.0	18 100
4.5	23 300
5.0	28 600
5.5	33 900
6.0	39 000
6.5	43 900
7.0	48 600
7.5	53 000
8.0	57 100
8.5	60 900
9.0	64 400
9.5	67 700
10.00	70 600