

# 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.

TUGE Energia OÜ

Tänassilma 65 Tänassilma, Saku Parish, Estonia 76 406

# **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<sup>2</sup>

# **Environmental conditions**

Active wind range 3-25 m/s

Survival wind speed 50 m/s

Operational temperature -25...+60°C

AWEA rated sound level 43.7 dB(A)

(Intertek report 103254243CRT-004)

# 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**

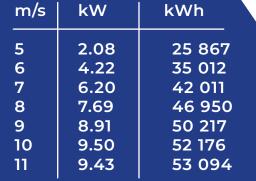
tilt-up steel tower in 3 parts and base section

# Maintenance

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

# Certification

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



More info: www.tuge.ee/tuge10