

A COMPLETE LINE TO MEET ANY MARKET DEMAND



TN535
Wind turbine
10 kW



Victory
Wind turbine
20 kW



Victory
Wind turbine
60 kW



Quality above and beyond the product

Tozzi Green is the first Italian manufacturer of small wind turbines to have product performance certified by an accredited body and to have installed them in the UK, confirming the superb product quality and guaranteeing a safe investment for the client. The power curve and noise emissions of the Victory 24-60 and TN535 wind turbines have been certified according to international standards (respectively, IEC61400-12 and IEC61400-11).



WHY TOZZI GREEN TURBINES?

TN535 and Victory

Thanks to their technical and aerodynamic characteristics - that maximize wind harvesting - Tozzi Green turbines adapt to the broadest range of wind conditions, achieving the highest energy production and thus ensuring a faster return on investment.

- Source of supplementary income and/or a boost for one's own activities
- Highly profitable investment for both individuals and businesses
- Rapid return on investment
- Simplified authorization procedures
- Safe and silent
- "Full Service" Maintenance
- Real-time monitoring system for clients
- Remote supervision system
- Power curve certified as per IEC 61400-12
- Fast, simple construction works
- Track record of over 400 installations
- Solid, lightweight, aerodynamic design
- Designed to last over 20 years



TN535

The only wind turbine that can produce up to 37,300 kWh at an average annual wind speed of 5 m/s, ideal performance for an investment guaranteed in time. Silent, reliable, with the characteristics of a maxi wind turbine: the TN535 can be installed in suburban areas such as agritourism establishments, farms, shopping malls, campsites, small and medium enterprises.

TN535 offers high power generation, even in sites with low wind speeds, thanks to such aerodynamic, mechanical characteristics as active pitch and yaw control. An advanced remote control system guarantees maximum safety and availability in time.

CERTIFICATIONS

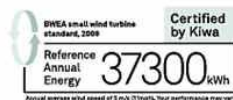
TN535

Power curve certified by DNV-GL
Garrad Hassan as per IEC 61400-12

Acoustic emissions certified by DNV-GL
Garrad Hassan as per IEC 61400-11

Type Certification MCS 006
for the United Kingdom (KIWA)

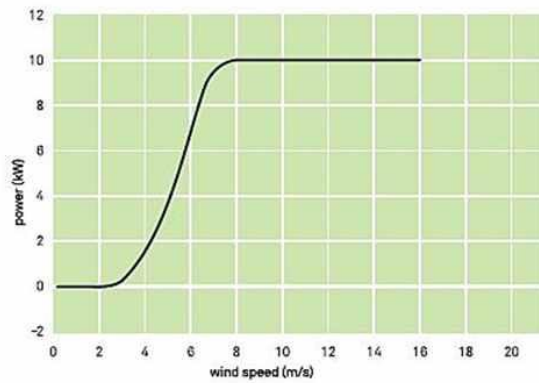
Type Certification ClassNK
for Japan (Nippon Kaiji Kyokai)



TECHNICAL CHARACTERISTICS

- Class IV, I15 = 0.18
- Up to 37,300 kWh/year at 5 m/s
- Rated power: 9.9 kW
- Rotor diameter: 13.2 m
- Swept Area: 136.7 m²
- Hub height: 15 m - 18 m - 24 m
- Cut in speed: 2.5 m/s
- Cut out speed: 16 m/s
- Rated speed*: 6.8 m/s
- Active pitch
- Active Yaw
- Synchronous generator with permanent magnets
- Secondary centrifugal brake

POWER CURVE



EXPECTED OUTPUT

Weibull Factor k = 2.0		Technical availability: 100%			
Air density: 1.225 kg/m ³		Average turbulence index: 18%			
Average annual speed	m/s	4	5	6	7
Average annual output	MWh	24,59	37,36	47,24	53,52



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