



Technical Specifications HELI 4,0 kW

Generator

- Permanent-magnet rotor, brushless, gearless, maintenance-free
- Extremely strong permanent magnets for a high level of efficiency
- (NdFeBo permanent magnets, resistant to temperatures up to 150° C)
- Special ball bearings for reliably taking up radial and axial forces
- 3-phase current
- Separate rectifier
- Either direction of rotation
- Voltage 48 VDC
- Start of feed-in at approx. 160 rpm
- Power: 3700 watts at 800 rpm and 59 VDC
- Evenly rising power curve
- Weight: 31kg
- Aluminium housing, surface cooling, base anchoring
- Gondola housing in GRP
- Protection class IP56

Rotor

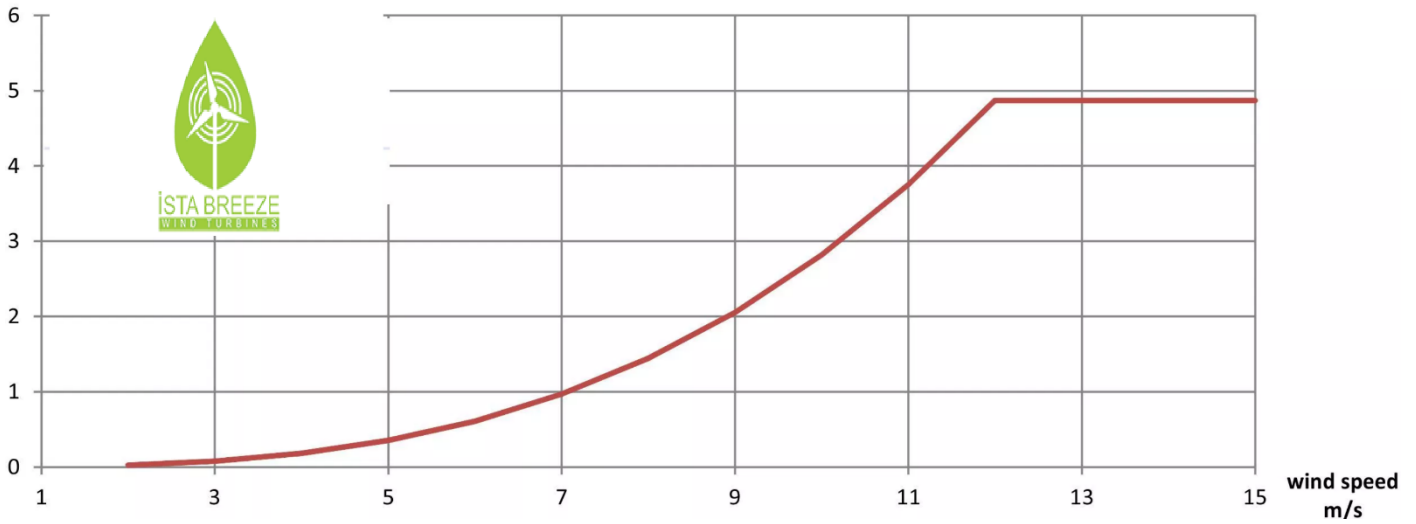
- Hub connection with aluminium flange and pressure-relief plate
- Stainless-steel screw connections with locknuts
- Three rotor blades in glass-fibre / carbon-fibre laminate
- Computer-designed aerodynamic profile
- Winglets on blade tips to minimise noise
- Approx. 3.50 m in diameter (optionally 3.00 m)
- Weight of each blade: approx. 3.3 kg
- Dynamically and statically balanced
- Direction of rotation anticlockwise viewed from front
- Max. rotational speed 420 rpm
- GRP spinner cap
- Rotor colour to client specification

Support element comprising:

- Wind vane (weatherproof HDPE, off-white, slightly transparent)
- Square stainless-steel tube as support element
- All screw connections in stainless steel and fitted with locknuts
- Steel bracket as support for generator, configured for plug-in connection with azimuth bearing, fully galvanised
- Protected by patented rotor-blade positioning system
- Mast adapter with flange connector (tube 114.3 mm)

Storm protection

- Rotor-blade positioning ("helicopter position")
- Voltage monitoring with braking resistance
- Generator short-circuit



— Why IstaBreeze® —

Altinel Energy



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