

## Antaris 5,5

### Technical Specifications Antaris 5.5 kW

Available in high/medium wind speed design.



#### 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 0-1000 VDC
- Start of feed-in at approx. 90 rpm
- Power: 5500 watts at 440 rpm and 350 VDC
- Evenly rising power curve
- Weight: 50 kg / 110 lbs
- Aluminium housing, surface cooling, base anchoring
- Gondola housing in GRP

## 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
- 3.5 m to 4.4 m / 11.5 – 14.4 ft in diameter
- Weight of each blade: approx. 6,2 kg / 13.7 lbs
- Dynamically and statically balanced
- Direction of rotation anticlockwise viewed from front
- Max. rotational speed 440 rpm
- GRP spinner cap

## 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

## Control cabinet

- Control system with voltage monitor
- Available for single phase and 3 phase grid feed in. Windy Boy 1100,1700,3300,3800.
- Control electronics with turbine controller
- Connections / plug connectors protected against polarity reversal
- Service power socket, 230 V
- Emergency-OFF switch
- Reset switch with key (removable)
- 10 kW braking resistance
- Rectifier, display etc.