Technical Details | 3.ZERO WIND TURBINE

Diameter incl. spoiler | 1893 mm
Diameter intake opening | 1353 mm
Total weight | approx. 80 kg
Minimum wind speed | 2.5 m/s
Rated capacity at 12 m/s | 1.150 Watt
Max. output at ca.17 m/s | 3.169 Watt
Braking system | Electronic and mechanical
Emergency stop | Mechanical switch
Braking wind speed | at approx. 18 m/s
Warranty | 2 years
Noise level | max. 45 dB
Monitoring | All turbines are equipped with a monitoring system. This includes a wind speed sensor
Max Revolutions | ca. 1090 r/min
Materials | Diffusor: HDPE; Rotor: Carbon fiber
Packaging | Reusable wood crate
Inverter: | Windinvert 3200 Watt (Exclusively developed for Venturicon)

Pole:
The pole systems are designed for the 3.ZERO Wind turbine up to wind class 4.

Output figures | 3.ZERO Wind turbine

<table>
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<th>v [m/s]</th>
<th>P [Watt]</th>
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Global Headquarters, Avenue du Lac 6-1814 La Tour-de-Peilz/Switzerland
Production, Studa 14, 6800 Feldkirch/Austria
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Technical Data | Venturicon 3.0 Inverter

Input (DC to internal rectifier)
- Nominal Voltage [V DC]: 120
- Switch-On Voltage [V DC]: 25V
- Voltage Range Characteristics [V DC]: 20 – 125V
- Max. Input Voltage [V DC]: Automatically limited by short-circuit break at 130V
- Max. Input Current [A]: 24
- Max. Input Power [Wp]: 3000
- Connection Type: Cable

Output (AC)
- Mains Supply: Uniphase (L/N/PE), Hirschmann CA3GS
- Output Voltage [V AC]: 230 ±10/-20%
- Max. Output Current [A]: 12
- Frequency [Hz]: 50 ±1,5/-2,5
- Rated Output [W]: 2400
- Max. Efficiency [W]: 2750
- Power Factor \( \cos \phi \): 1 regulated

General Data
- Max. Efficiency [%]: 94,0
- Mains Supply Off / Standby [W]: 20 / 1,2
- Communication Interface: SI-Modbus via RS485;
  Galvanically isolated; RJ45 plug
- Ambient Air Temperature: -25 till 70 [°C]
- Overheating Protection: Dynamic performance management from 85°C; Shutdown at 90°C
- Cooling: Passive via natural convection
- Permissible humidity [%]: 0 - 95
- Transient Overvoltage Protection: Varistor Type 2 / 2 / 3 AC / DC / AC
- Noise Emission [dB]: 35
- Topology: LF toroidal transformer, electrical separation
- Mains Supply Standards: DIN EN 50438; VDE 0126-1-1; AR-N4105
  With external network-monitoring
- Equipment Standards: DIN VDE 0838, EN 60555, EN 50178, EN 61000-3-2,
  EN 61000-3-3, EN 61000-6-2, EN 61000-6-3; EN 61558
- Protection Class Cover: IP 54 / Protective Earthing I
- Certification Mark: CE
- Dimensions (WxHxD) [mm]: 412 x 653 x 230
- Weight [kg]: 33
- Product Guarantee: 5 years

Venturicon Windturbines GmbH (Ltd.), Studa 14, 6800 Feldkirch/Austria

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