



MODEL ONE BASE



architecting the future of energy

Bringing beautiful, practical wind energy, to the places we live, work, and connect.



max. wind power
1000 watt



rotor surface area
1.16 m²



EU / UK grid connection



Rated Voltage
78 Vac

Specifications Model One

The Model one height can be higher than permitted. Contact your municipality if there is any uncertainty about this.

HeightxLengthxWidth	1.80x1.14x1.14m
Weight	73.1kg ex. tiles
Roof load incl. tiles	118.6kg/m ²
Colour	Ral9016 white, silver
Generator type	Axial Flux Coreless
Operating temperature	-25°C to 60°C

Datasheet Technical Disclaimer

The Airturb Model One is currently under development.

This datasheet reflects the most accurate and recent information available but should be read as indicative. Specifications and details are subject to change as product development continues. Ongoing developments include the design of the shaft and the base, as well as the addition of a generator raincover.

Your installer will advise on the safest and most suitable installation method, taking into account any developments that may be subject to change.

Airturb reserves the right to update or modify the product design and specifications without prior notice as part of continuous improvement.

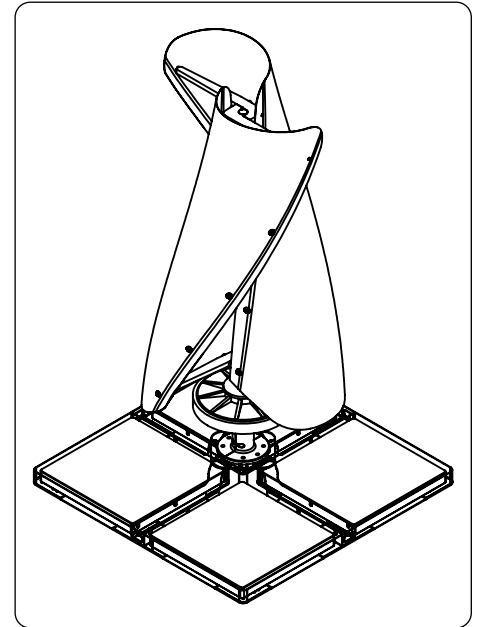
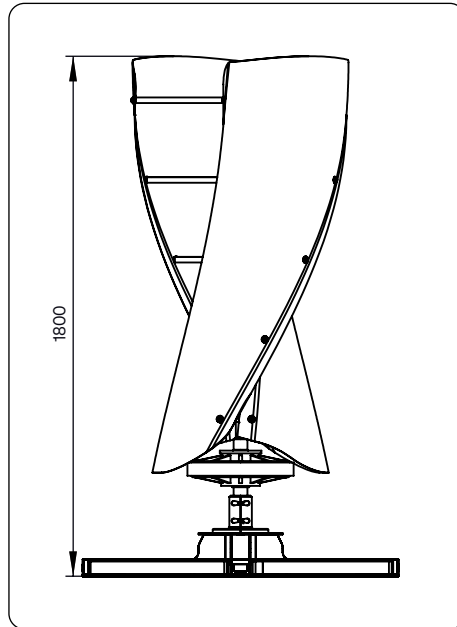
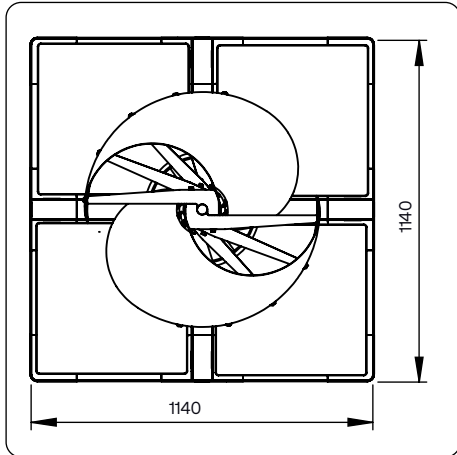
Noise measurement rapport

The sound measurements were conducted by the independent party ePrevent, executed by G.J. Boneschanser on 20-11-2023 following ISO norms

Temperature	Wind	Weather
10 °C	19.2 km/h N	rainy
Distance	LA _{max} dB/A	LA _{1t} dB/A
1 meter	18.3	15.0
2 meter	nihil	nihil
3 meter	nihil	nihil

MODEL ONE BASE

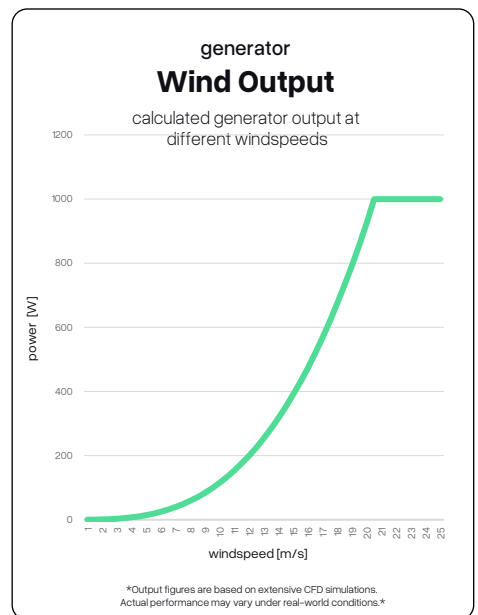
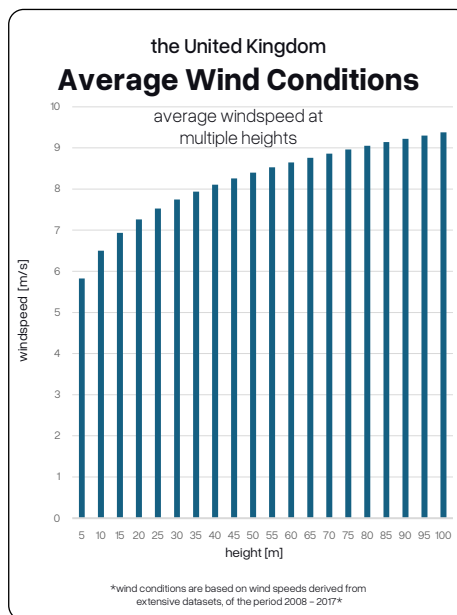
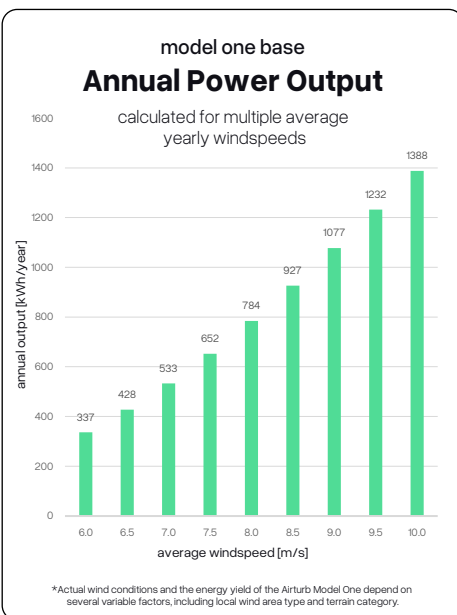
Datasheet



1.0 MODEL ONE - GENERAL DATA	
10.1 Height x Width x Width	180 x 114 x 114 meter
10.2 Weight	73.1kg
10.3 Ballast Weight	80 kg
10.4 Operating temperature	-25 °C to 60 °C
1.1 VAWT - WINDPANELS	
11.1 Amount - Material	2 - Glass Fiber Reinforced Polyester GRP/FRP
11.2 Weight per panel	1.5 kg
11.3 Height x Diameter x Thickness	1.5 meter x 0.8 meter x 15 millimeters
11.4 Panel colour	RAL 9016 White
1.2 VAWT - CROSSARMS	
12.1 Amount - Material	5 - 6013 T6 Aluminium (Anodised)
12.2 Weight per crossarm	1kg
12.3 Length - Diameter	0.8 meter - 20 millimeter
12.4 Colour	Anodised Silver

1.3 VAWT - DRIVESHAFT	
1.3.1 Amount - Material	1 - 316 L Stainless Steel
1.3.2 Height - Diameter	12 meter - 34 millimeters
1.3.3 Weight	9.2 kg
1.3.4 Colour	Raw Material
1.4 VAWT - Alternator	
1.4.1 Weight - Materials	20.5kg - Aluminium, Steel, Copper, NdFeB
1.4.2 Synchronous machine	Axial Flux Coreless Permanent Magnet Generator
1.4.3 Type	Outer-rotor, 20-pole
1.4.4 Rated Power	1000 W (1kW) at 300rpm (rated)
1.4.5 Rated Voltage - Rated Current	78 Vac (L-L), L-L = 10 A rms
1.4.6 Phases - Cables	3-phase AC - 3x 1.5 mm ²
1.5 CONCRETE TILES	
1.5.1 Amount - Materials	4 - Standard square concrete tiles
1.5.2 Height x Width x Width	50 x 50 x 4cm
1.5.3 Weight per tile	20 kg

1.6 BASE	
1.6.1 Height x width x width	0.20 x 114 x 114 meter
1.6.2 Weight	26.2 kg
1.6.3 Material - Gasket - Dampers	Steel (Galvanised) - Rubber - Rubber
1.6.4 Electronicbox Protection Grade	IP68
1.7 INTERNAL COMPONENTS	
1.7.1 Maintenance button	N/A
1.7.2 EPS output	Wieland Ⓞ RST204 Male 4 pole; (Boost) Wieland Ⓞ RST2016 Male 6 pole
1.7.3 Cable assembly - Connector	UV-Resistant; 2.5mm ² - L1, L2, L3, PE - Ⓞ Wieland RST204 Female - Male 4 pole; (Boost) 2.5mm ² - L1, L2, L3, DC+, DC-, PE - Ⓞ Wieland RST2016 Female - Male 6 pole
1.7.4 Shock protection	Grounded
A. MANUFACTURER DATA	
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MODEL ONE CORE



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max. wind power
1000 watt



rotor surface area
1.16 m²



EU / UK grid connection



Rated Voltage
78 Vac

Specifications Model One

The Model one height can be higher than permitted. Contact your municipality if there is any uncertainty about this.

HeightxLengthxWidth	1.645x0.78x0.78m
Weight	48.3kg
Roof load incl. tiles	N/A
Colour	Ral9016 white, silver
Generator type	Axial Flux Coreless
Operating temperature	-25°C to 60°C

Datasheet

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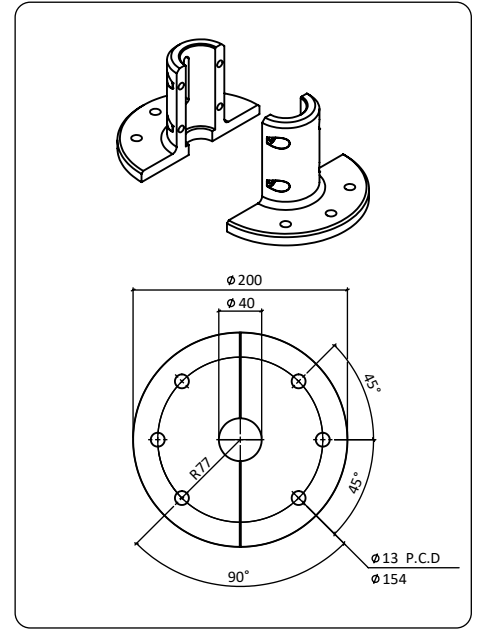
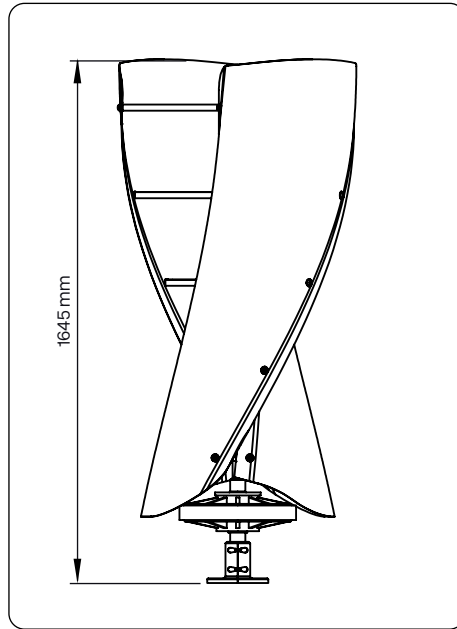
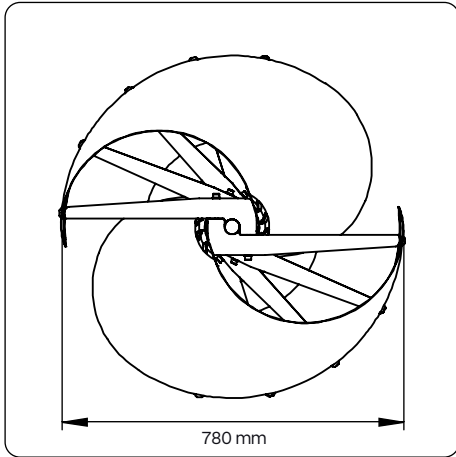
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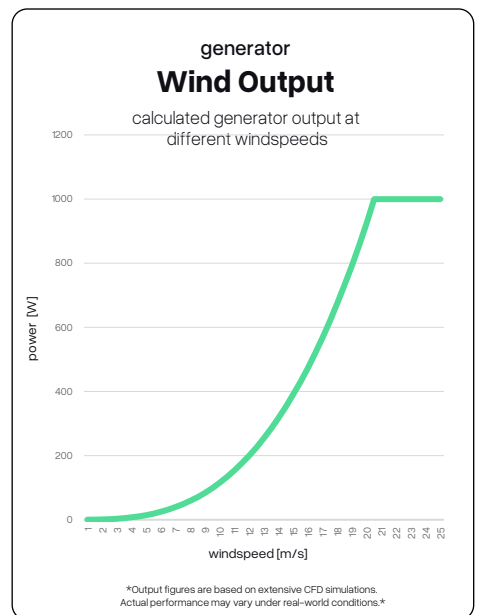
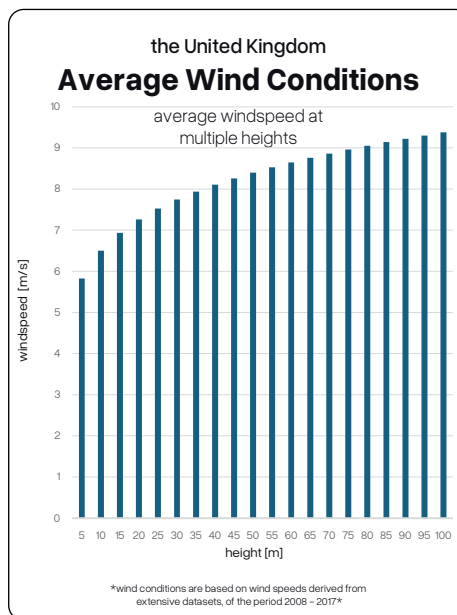
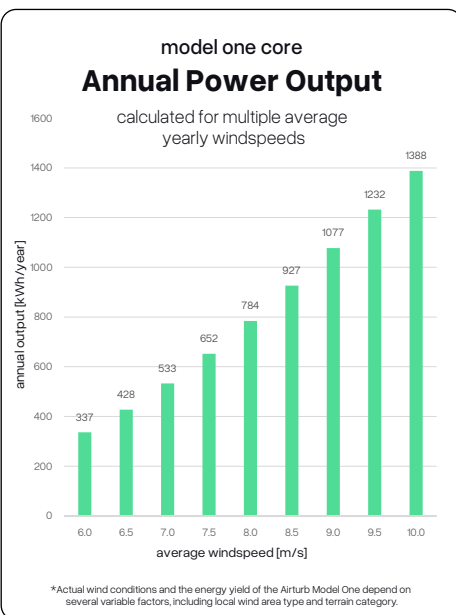
MODEL ONE CORE Datasheet



1.0 MODEL ONE - GENERAL DATA	
10.1 Height x Width x Width	1645 x 0.78 x 0.78 meter
10.2 Weight	48.3 kg
10.3 Ballast Weight	n/a
10.4 Operating temperature	-25 °C to 60 °C
1.1 VAWT - WINDPANELS	
1.1.1 Amount - Material	2 - Glass Fiber Reinforced Polyester GRP/FRP
1.1.2 Weight per panel	15 kg
1.1.3 Height x Diameter x Thickness	1.5 meter x 0.8 meter x 15 millimeters
1.1.4 Panel colour	RAL 9016 White
1.2 VAWT - CROSSARMS	
1.2.1 Amount - Material	5 - 6013 T6 Aluminium (Anodised)
1.2.2 Weight per crossarm	1 kg
1.2.3 Length - Diameter	0.8 meter - 20 millimeter
1.2.4 Colour	Anodised Silver

1.3 VAWT - DRIVESHAFT	
1.3.1 Amount - Material	1 - 316 L Stainless Steel
1.3.2 Height - Diameter	12 meter - 34 millimeters
1.3.3 Weight	9.2 kg
1.3.4 Colour	Raw Material
1.4 VAWT - Generator	
1.4.1 Weight - Materials	20.5kg - Aluminium, Steel, Copper, NdFeB
1.4.2 Synchronous machine	Axial Flux Coreless Permanent Magnet Generator
1.4.3 Type	Outer-rotor, 20-pole
1.4.4 Rated Power	1000 W (1kW) at 300rpm (rated)
1.4.5 Rated Voltage - Rated Current	78 Vac (L-L), L-L = 8 A rms
1.4.6 Phases - Cables	3-phase AC - 3x 1.5 mm ²
1.5 INSTALLATION	
1.5.1	The structural design, calculations, simulations and testing of the structure to which Model One Core is mounted are the responsibility of the owner and installer; Airturb accepts no liability for these aspects. Always consult a certified installer or qualified structural engineer for the site-specific design and installation of the product.

1.7 INTERNAL COMPONENTS	
1.7.1 Maintenance button	N/A
1.7.2 EPS output	Wieland Ⓞ RST204 Male 4 pole; (Boost) Wieland Ⓞ RST206 Male 6 pole
1.7.3 Cable assembly - Connector	UV-Resistant; 2.5mm ² - L1, L2, L3, PE - Ⓞ Wieland RST204 Female - Male 4 pole; (Boost) 2.5mm ² - L1, L2, L3, DC+, DC-, PE - Ⓞ Wieland RST206 Female - Male 6 pole
1.7.4 Shock protection	Grounded
A. MANUFACTURER DATA	
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Version	EUAMOCO.16032026



MODEL ONE SKY



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max. wind power
1000 watt



rotor surface area
1.16 m²



EU / UK
grid connection



Rated Voltage
78 Vac

Specifications Model One

The Model one height can be higher than permitted. Contact your municipality if there is any uncertainty about this.

HeightxLengthxWidth	5.645x0.78x0.78m
Weight	200.0kg
Roof load incl. tiles	N/A
Colour	Ral9016 white, silver
Generator type	Axial flux Coreless
Operating temperature	-25°C to 60°C

Datasheet

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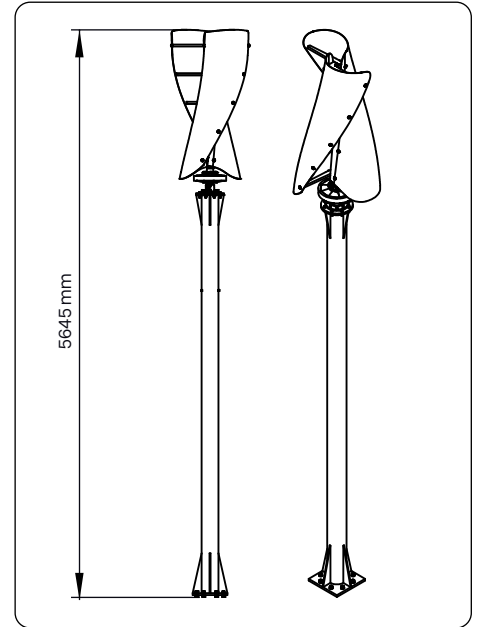
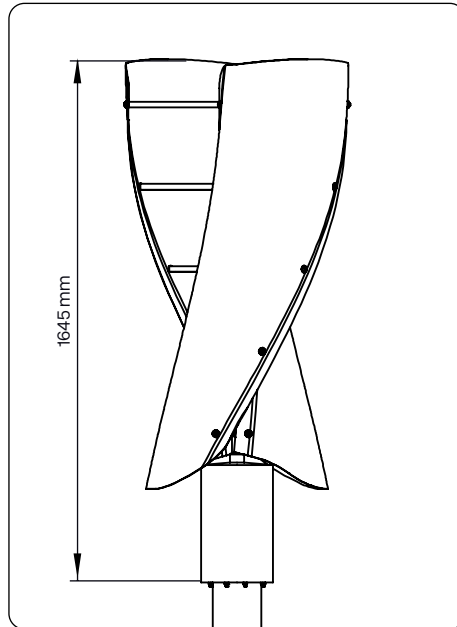
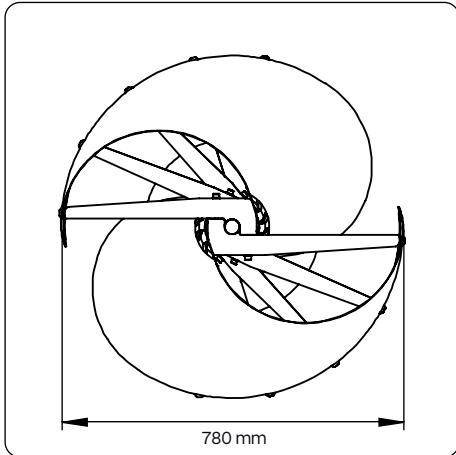
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2 meter	nihil	nihil
3 meter	nihil	nihil

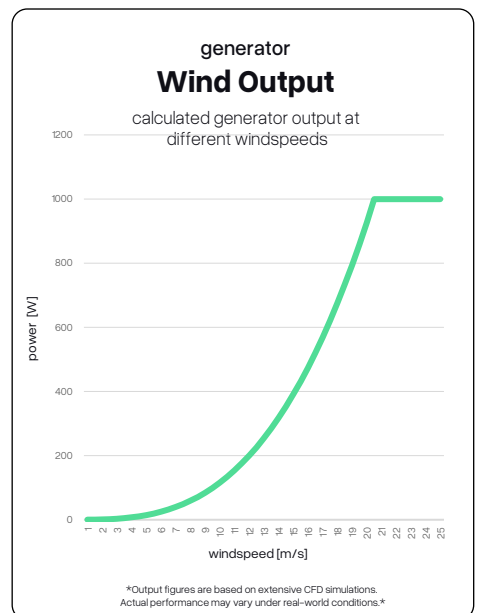
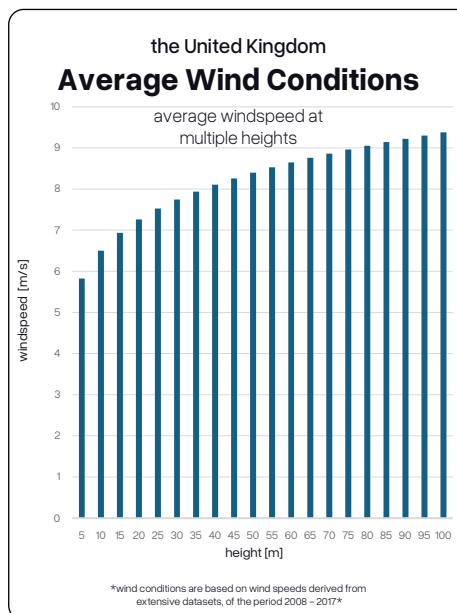
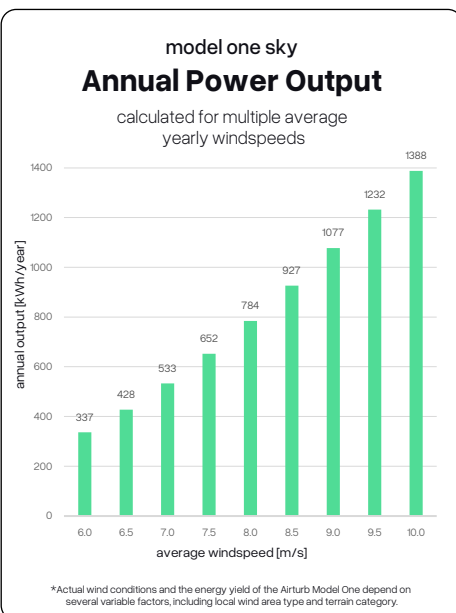
MODEL ONE SKY Datasheet



1.0 MODEL ONE - GENERAL DATA	
10.1 Height x Width x Width	182 x 0.78 x 0.78 meter
10.2 Weight	200.0 kg
10.3 Ballast Weight	n/a
10.4 Operating temperature	-25 °C to 60 °C
1.1 VAWT - WINDPANELS	
1.1.1 Amount - Material	2 - Glass Fiber Reinforced Polyester GRP/FRP
1.1.2 Weight per panel	15 kg
1.1.3 Height x Diameter x Thickness	1.5 meter x 0.8 meter x 15 millimeters
1.1.4 Panel colour	RAL 9016 White
1.2 VAWT - CROSSARMS	
1.2.1 Amount - Material	5 - 6013 T6 Aluminium (Anodised)
1.2.2 Weight per crossarm	1 kg
1.2.3 Length - Diameter	0.8 meter - 20 millimeter
1.2.4 Colour	Anodised Silver

1.3 VAWT - DRIVESHAFT	
1.3.1 Amount - Material	1 - 316 L Stainless Steel
1.3.2 Height - Diameter	12 meter - 34 millimeters
1.3.3 Weight	9.2 kg
1.3.4 Colour	Raw Material
1.4 VAWT - Alternator	
1.4.1 Weight - Materials	20.5kg - Aluminium, Steel, Copper, NdFeB
1.4.2 Synchronous machine	Axial Flux Coreless Permanent Magnet Generator
1.4.3 Type	Outer-rotor, 20-pole
1.4.4 Rated Power	1000 W (1kW) at 300rpm (rated)
1.4.5 Rated Voltage - Rated Current	78 Vac (L-L), L-L = 10 A rms
1.4.6 Phases - Cables	3-phase AC - 3x 1.5 mm ²
1.5 FOUNDATION	
1.5.1	The appropriate foundation type is determined by the ground composition and conditions at the installation location. Consult your installer for a site-specific foundation recommendation.

1.6 POLE	
1.6.1 Height x width x width	0.30 x 0.30 x 4.00 meter
1.6.2 Weight	153.1kg
1.6.3 Material	Steel (Galvanised)
1.7 INTERNAL COMPONENTS	
1.7.1 Maintenance button	N/A
1.7.2 EPS output	Wieland Ⓞ RST204 Male 4 pole; (Boost) Wieland Ⓞ RST206 Male 6 pole
1.7.3 Cable assembly - Connector	UV-Resistant; 2.5mm ² - L1, L2, L3, PE - Ⓞ Wieland RST204 Female - Male 4 pole; (Boost) 2.5mm ² - L1, L2, L3, DC+, DC-, PE - Ⓞ Wieland RST206 Female - Male 6 pole
1.7.4 Shock protection	Grounded
A. MANUFACTURER DATA	
Document prepared on:	16/03/2026
Department	Airturb BV Ⓞ - Research & Development
Version	EJAMOSK.16032026





AIRTURB SMART WIND CONTROLLER



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Bringing beautiful, practical wind energy, to the places we live, work, and connect.



rated power
2000 watt



average efficiency
95%



smart monitoring
LCD & RS485



smart MPPT
Boost & Buck

Specifications
Airturb Smart Wind Controller

HeightxLengthxWidth	450 x 425 x 210 mm
Weight	17 kg
Communication	RS485
Installation method	Wall-mounted
Relative Humidity	~ 85% RH
Operating temperature	-20°C ~ +50°C

Datasheet
Technical Disclaimer

The Airturb Smart Hybrid Inverter is currently under development.

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Wind Controller
Parameters

Rated Power	2000 W
Nominal System Voltage	48V
MPPT Mode	Auto & P-V Curve
Charging Range	DC 15~150V
Efficiency	95%
Power Loss	≤ 3 W

Datasheet

1.1 INPUT & OUTPUT PARAMETERS

1.1.1 Rated Wind Power	2000 W
1.1.2 Nominal System Voltage	48 V
1.1.3 Under Voltage (Low)	40.8 V
1.1.4 Over voltage (Full)	57.6 V
1.1.5 Over Recovery voltage (Rfull)	52.8 V
1.1.6 Float voltage (Flot)	54.0V
1.1.7 Wind dump load rotate speed	300 RPM
1.1.8 Wind Charging Range	DC (15-150) V
1.1.9 Wind start charging voltage (Cut In)	15 V
1.1.11 Wind dump load voltage (Cut Out)	150 V

1.2 CONTROLLER MODES

1.2.1 Dump load control modes	Over rotate speed limiting
1.2.2 Dump load control modes	Over voltage limiting
1.2.3 Dump load control modes	Over Current Limiting
1.2.4 Dump load control modes	PWM
1.2.5. Wind charging modes	MPPT (Boost & Buck) & PWM
1.2.6. MPPT Modes	Auto & P-V Curve

A. MANUFACTURER DATA

Document prepared on	16/03/2026
Department	Research & Development
Version	EUASWC:16032026

1.3 PHYSICAL FEATURES

1.3.1 Dimensions (W × H × D)	450 × 425 × 210 mm
1.3.2 Weight	17 kg
1.3.3 Display mode	LCD
1.3.4 Display Content	Battery: Voltage; charging current; percentage of battery power. Wind: Voltage; charging current; rotate speed; output current; output power Solar: Voltage; charging current. Loads: Current; power; working mode.
1.3.5 Power Loss	≤ 3 W
1.3.6 Efficiency	95%

1.4 OPERATING FEATURES

1.4.1 Operating temperature	-20 °C ~ +50 °C
1.4.2 Relative Humidity	35% ~ 85% RH (non condensing)
1.4.3 Protection Type	Battery: Over-discharge protection; over-charge protection; anti-reverse connection. Wind: Over rotate speed protection, over voltage protection, over current protection. Loads: Over-load protection
1.4.4 Communication	RS-485
1.4.5 Certifications	EN 62368:2014, EN 62509-2011, EN 61000-6-1:2019, EN 61000-6-3:2017