

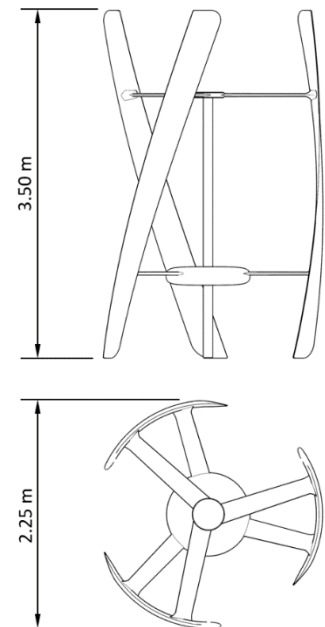
# Norhybrid Vertical Axis Wind Turbine

Model: NH-3700

## 1 PRODUCT DATASHEET

### 1.1 GENERAL SPECIFICATIONS

Item description	Value	Comment
Peak power [W]	3700	
Rated power [W]	3000	
Rated speed [rpm]	250	
Cut in wind speed [m/s]	3.0	
Cut out wind speed [m/s]	20	
Rated wind speed [m/s]	12	
Survival wind speed [m/s]	42	
Noise level at 60m distance [dB(A)]	32,5 39	at 6 m/s at 8 m/s



### 1.2 DIMENSION AND WEIGHT

Item description	Value	Comment
Rotor diameter [m]	2.25	
Rotor height [m]	3.50	
Tower height [m]	8.60	Typical
Turbine weight [kg]	250	Incl. generator

### 1.3 ROTOR SPECIFICATION

Item description	Value	Comment
Rotor type [-]	Helical darrieus	
Number of blades [-]	3	
Blades material [-]	Glassfibre reinforced resin	
Blade holders material [-]	Glassfibre reinforced resin	

### 1.4 GENERATOR SPECIFICATION

Item description	Value	Comment
Generator type [-]	AC 3 phase permanent magnet synchronous axial flux generator	
Rated output [W]	3700	

### 1.5 CONTROL SYSTEM SPECIFICATION

Item description	Value	Comment
Controller type [-]	Microcontroller with integrated grid inverter	
Electrical brake [-]	Braking resistor and additional short circuit switch	Activation by controller or emergency stop
Rated power [W]	3000	
Electrical output [-]	Single phase 230V, 50Hz	

### 1.6 OPERATING CONDITIONS

Item description	Value	Comment
Altitude [msl]	2000	
Ambient temperature [°C]	-20...+40	
Ambient humidity [%]	95	

### 1.7 POWER CURVE

