



Small Vertical axis wind turbine 700W Model DS700 for off-grid installations

Etneo introduces the small wind turbines with vertical axis made with its partners in Taiwan, nicknamed the land of typhoons. Tests conducted in test fields, the wind tunnel laboratories such as TUV NEL (UK) NREL (USA), Windtest KAISER (Germany), MIRDC (TAIWAN institute for testing of micro wind turbines) the active installations for some years up to today provide excellent production capacity, solving all the problems of the horizontal ones, noise from vibration or all the power losses due to the need to orientate the rotor to the wind.

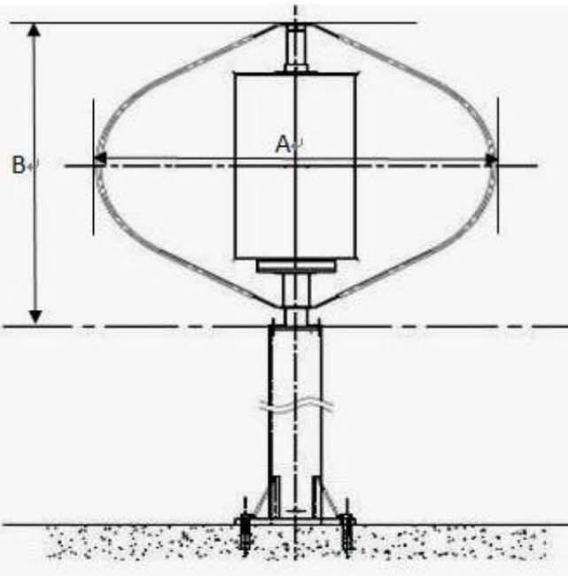
Our turbines are working on two principles: **Savonius** or inside blades with nozzles oriented on the 4 cardinal points, always ready to capture the wind, very useful at the start of rotation of the wind generator with low winds. **Darrieus** or outer blades that allows the turbine to work very well with turbulence or strong winds. Our products are ideal for grid connection with ABB inverter and energy storage systems with photovoltaic modules to ensure a larger capacity of the whole storage solution.

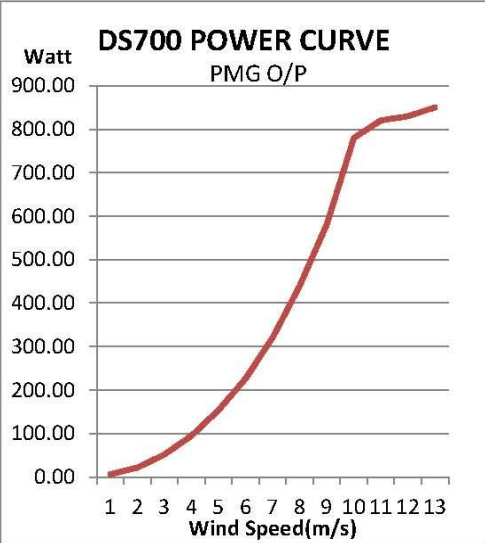




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PRODUCT SPECIFICATION

General Specification				
Rated Power		700w	Rated wind speed	12 m/s
Rated rpm		405 rpm	Cut-in wind speed	<3m/s
Cut-out		15m/s	Survivor wind speed	60m/s
Wind turbine specification				
Rotor Diameter(A)		1.930m		
Total Height (B)		1.597m		
Tower Height (Option)		3 meter height minimum recommended		
Turbine Weight		60kg		
External Darrieus		3 blades		
Internal Savonius		2 layer		
Blades material		Anodized Aluminum		
Rotor Axis material		Anodized Aluminum		
				
Generator Specification				
Type	AC, 3phase, Synchronism PMG			
Rated power	1000W			
Brake system				
Automatic	Over speed short circuit brake control			
Manual	Electronic Switch Type			
System Operation Conditions				
Ambient Temperature	-10~40℃			
Ambient Humidity	95% max.			

Power Curve	
	



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The 1kW charge controller is able to manage in total autonomy the wind turbine with MPPT function and consequent storage in the battery pack. The advanced technology allows accurate control of all the generated values, the turbine speed, the output power, the capacity of stored energy.



MAX-1000 Wiring

