



# VERTICAL AXIS SMALL WIND TURBINE MODEL NO.: DS700

## 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
<b>Wind turbine specification</b>			
Rotor Diameter(A)	1.93m		
Total Height (B)	1.66m		
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		
<b>Generator Specification</b>			
Type	AC, 3phase, Synchronism PMG		
Rated power	700W		
<b>Brake system</b>			
Automatic	Over speed short circuit brake control		
Manual	Electronic Switch Type		
<b>System Operation Conditions</b>			
Ambient Temperature	-10~40°C		
Ambient Humidity	95% max.		




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### GRID TIED SYSYEM

Specifications of Control Cabinet	
<b>Functions</b>	<ul style="list-style-type: none"><li>● Auto Brake control</li><li>● Manual Brake</li><li>● Induction Lightning protection</li></ul>
<b>Dimension</b>	91 x 61 x 21.5 cm


Specifications of Inverter	
	
<b>Model</b>	GCI-2.5K-2G-W
<b>Output</b>	180~270Vac , 50/60Hz, split phase
<b>Rated power</b>	2500W
<b>Functions</b>	<ul style="list-style-type: none"><li>● MPPT</li><li>● States indicator</li><li>● RS485 / WIFI(option) / GPRS(option) communication port</li><li>● IP65</li></ul>
<b>Protection</b>	Islanding protection , DC reverse – polarity protection , AC short circuit protection , over temperature protection
<b>LCD display</b>	Input and Output states
<b>Certification</b>	UL 1741 / G83/2 / AS4777 / VDE 0126-1-1
<b>Dimension</b>	33.9 x 56.5 x 17.25 cm



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### OFF GRID SYSTEM

Specifications of Charger Controller	
	
<b>Model</b>	MAX-1500
<b>Output</b>	48Vdc
<b>Functions</b>	<ul style="list-style-type: none"><li>● Hybrid Charger (Wind 1000W , PV 1000W )</li><li>● MPPT (Wind ) , PWM (PV)</li><li>● Auto Brake control</li><li>● States indicator</li><li>● RS485 communication port</li></ul>
<b>Battery(Option)</b>	12Vdc 100Ah x4 Deep Cycle Battery or LFP Battery
<b>Protection</b>	OVP / OCP / OSP / ILP
<b>LED display</b>	Wind / PV / Battery states
<b>Certification</b>	CE
<b>Dimension</b>	40 x 30 x 20 cm