



# Vertical Axis Wind Turbine Power System Model: DS1500

## RODUCT SPECIFICATIONS

General Specifications			
Rated Power	1.5kW	Rated Wind Speed	12 m/s
Rated Speed	274 rpm	Cut in Wind Speed	<3 m/s
Cut out Wind Speed	15 m/s	Survival Wind Speed	60 m/s (At Parking)
<b>Dimensions/Weight</b>			
Rotor Diameter (A)	2.80m		
Total Height (B)	2.94m		
Tower Height (Option)	4 m (minimum)		
Turbine Weight	380kg w/o tower		
<b>Rotor Specifications</b>			
External Darrius	3 blades		
Internal Savonius	2 layers		
Blades Material	Anodized aluminum		
Rotor Axis Material	Galvanized steel SS400		
<b>Generator Specifications</b>			
Generator Type	AC, 3phase Synchronism PMG		
Rated Output	1.5kW	<p style="text-align: center;"><b>DS1500 POWER CURVE</b> PMG O/P</p>	
<b>Braking System</b>			
Automatic	Automatic dump-load and 3-phase short circuit braking system		
Manual	Electronic brake and Mechanical brake		
<b>System Operation Conditions</b>			
Ambient Temperature	-10~40°C		
Ambient Humidity	95% max.		



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<b>Controller</b>	<b>Off Grid</b>	<b>On Grid</b>
Type	Off Grid Wind MPPT Charger	On Grid Wind MPPT Inverter
MPPT	V	V
Output power	DC48V	Single phase or split phase AC208/220V/230V/240V 50/60Hz
Dump and Brake	V	V
RS485	V	V
LCD Display	V	V
<b>Control Cabinet</b>		
Automatic dump	V	V
Automatic Brake	V	V
Manual Dump	V	V
Manual Brake	V	V
Dimension	58 x 56 x 20 cm	
<b>Battery Capacity (Option)</b>	<b>48V 200Ah</b>	<b>X</b>

Remark 1: Tower and batteries are not included in standard equipment.

Remark 2: Minimum tower height of 4m is suggested for efficiency and safety concern while installed on the ground.