



# Vertical Axis Wind Turbine Power System Model: DS3000

## PRODUCT SPECIFICATIONS

General Specifications			
Rated Power	3kW	Rated Wind Speed	12 m/s
Rated Speed	205 rpm	Cut in Wind Speed	<3 m/s
Cut out Wind Speed	17 m/s	Survival Wind Speed	60 m/s (At Parking)
<b>Dimensions/Weight</b>			
Rotor Diameter (A)	4.00m		
Total Height (B)	4.01m		
Tower Height (Option)	4 m (minimum)		
Turbine Weight	680kg w/o tower		
<b>Rotor Specifications</b>			
External Darrieus	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	3kW		
<b>Braking System</b>			
Automatic	Automatic dump-load and 3-phase short circuit braking system		
Manual	Electrical 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>DC48V 300Ah</b>	<b>X</b>
<b>Auto Pin Lock (Option)</b>	V	V
<b>Inclination sensor (Option)</b>	V	V
<b>Certificate (IEC61400-2 Standard)</b>	X	<b>ClassNK, Japan</b> <b>SWCC, North America</b> <b>BSMI, Taiwan</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.