



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	15 m/s	Survival Wind Speed	60 m/s Continuously <3s
Dimensions/Weight			
Rotor Diameter (A)	4.00m		
Total Height (B)	4.01m		
Tower Height (Option)	4 m (minimum)		
Turbine Weight	680kg w/o tower		
Rotor Specifications			
External Darrius	3 blades		
Internal Savonius	2 layers		
Blades Material	Anodized aluminum		
Rotor Axis Material	Galvanized steel SS400		
Generator Specifications		Power Curve	
Generator Type	AC, 3phase, Synchronism PMG		
Rated Output	3kW		
Braking System			
Automatic	Automatic dump-load and 3-phase short circuit braking system		
Manual	Electronic Switch and Mechanical brake		
System Operation Conditions			
Ambient Temperature	-10~40°C		
Ambient Humidity	95% max.		



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Controller	Off Grid	On Grid
Type	Off Grid type wind MPPT Charger	On Grid Type 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
Control Cabinet		
Automatic dump	V	V
Automatic Brake	V	V
Manual Dump	V	V
Manual Brake	V	V
Power Switch	Battery / Loading	AC Power
Dimension	90 x 60 x 22 cm	90 x 60 x 22 cm
PFC Wind Box	V	V
Battery		
Battery Capacity	48V 300Ah	X

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.