

# Vertical Axis Wind Turbine Power System

## Model number: DS300

### ***PRODUCT SPECIFICATIONS***



General Specifications			
Rated Power	300W	Rated Wind Speed	13.5 m/s
Rated Speed	835 rpm	Cut in Wind Speed	<3 m/s
Cut out Wind Speed	15.5 m/s	Survival Wind Speed	60 m/s
Dimensions/Weight			
Rotor Diameter	1.24 m		
Rotor Height	1.06 m		
Tower Height	4.00 m (minimum)		
Total Height	5.06 m (minimum)		
Turbine Weight	25.5 kg w/o tower		
Rotor Specifications			
External Darrius	3 blades		
Internal Savonius	2 layers		
Blades Material	Anodized aluminum		
Axis Material	Galvanized steel SS400		
Generator Specifications		Power Curve	
Generator Type	AC, 3phase, Synchronism PMG	<h3 style="text-align: center;">DS-300 Power Curve</h3>	
Rated Output	300W		
Braking System			
Automatic	3-phase short circuit braking system		
Manual	Optional		
Operation Conditions			
Ambient Temperature	-10~40°C		
Ambient Humidity	95% max.		

**Vertical Axis Wind Turbine Power System  
Model number: DS300**



**PRODUCT SPECIFICATIONS**



<b>Wind Power Controller</b>	
Model Number	WG0400
Rated Power Output	400W
Input Voltage Range	0~50V
Power Charge (Start/Stop)	6V/4V
Rated Input Voltage	28V
Rated Input Current	15A
MPPT Efficiency	>92%/>95%
Sleeping Mode  (Wake-up Voltage)	5Vdc @ 1 min. (from turbine)
Power Activate Voltage	5V
Battery Suggestion	12VDC/100AH/150AH/200AH
Maximum Battery Charging Current	10/15/30 Amp
Battery Protection Voltage	13.8V ±0.5V
Float Charging Voltage	14.4V ±0.5, 1min charging per 10min
Loading Output Current	DC 16Amax,
Discharging Limit	11.5VDC ±0.5
Loading Control Set-up	14 sections
Sleep Mode Activate Voltage	11.5Vdc ±0.5 (from battery)
Current of Stand-by Mode	<1mA@Sleep Mode
Additional Outdoors Requirement	Optional
Package Interface	20cm PVC line to line
Dimensions(L×W×H) mm	200×142×50
Weight	1.5 kg