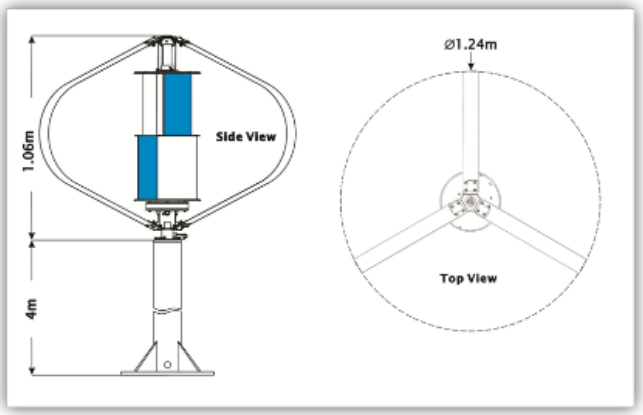
Vertical Axis Wind Turbine Power System
Model number: DS300

PRODUCT SPECIFICATIONS

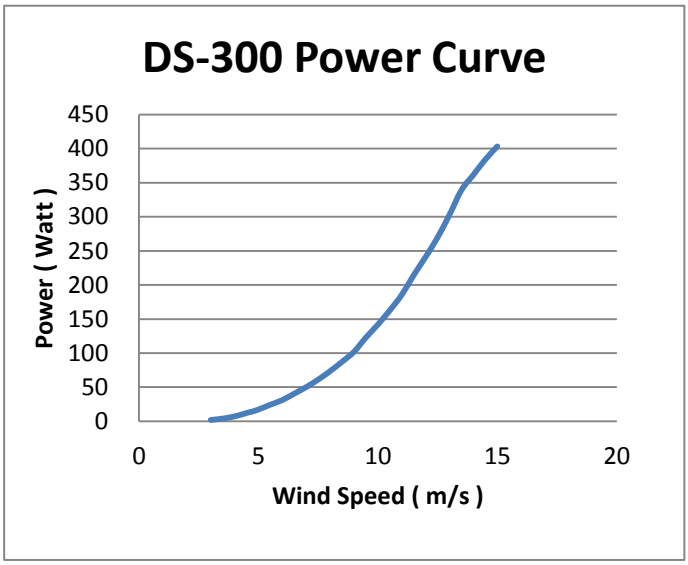
General Specifications			
Rated Power	300W	**Rated Wind Speed**	13.5 m/s
Rated Speed	835 rpm	**Cut in Wind Speed**	<3 m/s
Cut out Wind Speed	15.5 m/s	**Survival Wind Speed**	60 m/s

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 Darrieus	3 blades
Internal Savonius	2 layers
Blades Material	Anodized aluminum
Axis Material	Galvanized steel SS400



Generator Specifications	
Generator Type	AC, 3phase, Synchronism PMG
Rated Output	300W
Braking System	
Automatic	3-phase short circuit braking system
Manual	Optional
Operation Conditions	
Ambient Temperature	-10~40℃
Ambient Humidity	95% max.

Power Curve



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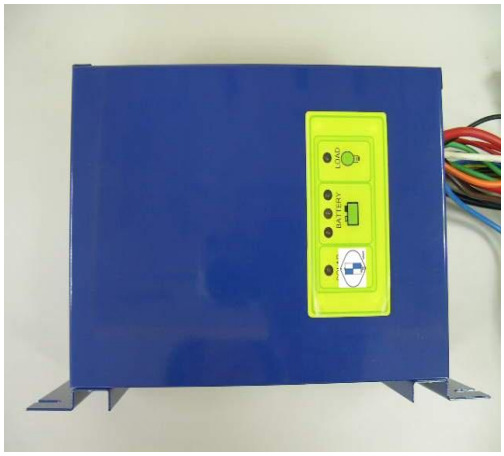

Wind Power Controller	
Model Number	WG0400
Rated Power Output	400W
Input Voltage Range	0~50V
Power Charge (Start/Stop)	6V/4V
Rated Input Voltage	28V
Rated Input Current	15A
MPPT Efficiency	>92%/>95%
Sleeping Mode| (Wake-up Voltage)	5Vdc @ 1 min. (from turbine)
Power Activate Voltage	5V
Battery Suggestion	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