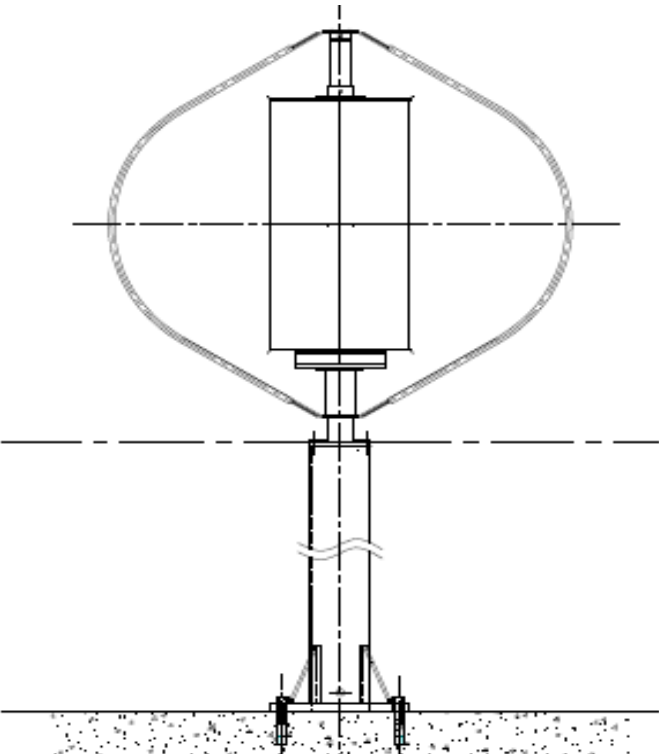
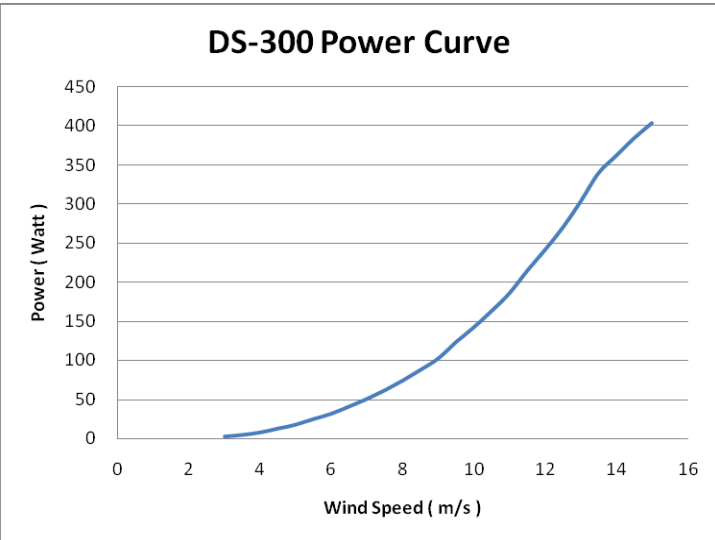


HiEnergy Vertical Axis Wind Turbine Power System
Model Number: DS300

PRODUCT SPECIFICATIONS

General Specifications			
Rated Power	300 W	Rated Wind Speed	13 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 (A)	1.24 m		
Rotor Height (B)	1.06 m		
Tower Height	4m (minimum)		
Total Height	5.06m (minimum)		
Turbine Weight	30 kg		
Rotor Specifications			
External Darrieus	3 blades		
Internal Savonius	2 layers		
Blades Material	Anodized aluminum		
Surface Treatment	Anodize		
Axis Material	Galvanized Steel SS400		
Generator Specifications		Power Curve	
Generator Type	AC, 3 phases		
	Synchronism PMG		
Rated Output	300W		
Braking System			
Automatic	Over speed short circuit braking system		
Manual	3-Phase short circuit by NFB brake.		
Operation Conditions			
Ambient Temperature	-10~40°C		
Ambient Humidity	95% max.		

HiEnergy Vertical Axis Wind Turbine Power System
Model Number: DS300

PRODUCT SPECIFICATIONS

Stand-Alone Controllers Match Your Requirement:



WG400

Wind Power Controller



WG400/SG200

Wind+Photovoltaic Hybrid Controller

Specification of WG400		Specification of SG200	
Model Number	WG0400	Model	SCHG12200 SCHG24400
Rated Power Output	400W	Rated Power	200W 400W
Input Voltage Range	0~50V	MPPT Voltage Range	6~50V
Power Charge (Start/Stop)	6V/4V	Charging Start/Stop	6V/4V
Rated Input Voltage	28V	Rated Input Current	15A
Rated Input Current	15A	Converter Efficiency	>92%/>95%
MPPT Efficiency	>92%/>95%	MPPT Efficiency	>92%/>95%
Sleeping Mode (Wake-up Voltage)	5Vdc @ 1 min. (from turbine)	Sleeping Mode	5Vdc @ 1 min.
Power Activate Voltage	5V		
Suggested batteries	12V50Ah x 3 or 12V100Ah x 2	Suggested batteries	12V50Ah x 3 or 12V100Ah x 2
Maximum Battery Charging Current	10/15/30 Amp	Battery Low Shutdown	11.5Vdc ±0.5 23Vdc±0.5
Battery Protection Voltage	13.8V ±0.5V	Battery Protection Voltage	14.4V ±0.5 , 1min charging per 10min 28.8V ±0.4, 1min charging per 10min
Float Charging Voltage	14.4V ±0.5 , 1min charging per 10min	Load Current	DC 16Amax, Dry contact
Loading Output Current	DC 16Amax,	Load Management	16 Segment
Discharging Limit	11.5VDC ±0.5	Max. Charging Current	10/15/20 Amps adjustable
Loading Control Set-up	16 sections	Power Consumption	<0.1mA@sleep mode
Sleep Mode Activate Voltage	11.5Vdc ±0.5 (from battery)	Humidity Protection	Optional
Current of Stand-by Mode	<1mA@ Sleep Mode	Interface	For a 20cm cable, use copper wire with PVC insulation
Additional Outdoors Requirement	Optional	Size(L×W×H) mm	200×142×50
Package Interface	20cm PVC line to line	Weight	1.5kg
Dimensions(L×W×H) mm	200×142×50		
Weight	1.5 kg		
Control Functions	Maximum Peaking Power Tracking (MPPT) system with automatic over speed braking control		

Remark 1: All systems are CE certified.

Remark 2: All controllers are DC output.