Add: Botha Street, Bronkhorstspruit, Gauteng

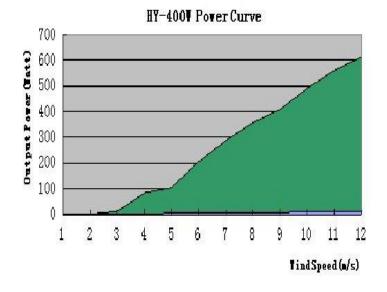
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Inverter with charger&Control System

Model	HY-400W
Rotor Diameter	1.5m (4.9 ft)
Rated power	400 Watts
Charging voltage	DC24V
Output voltage	AC 110V, 120V, 220V, 230V, 240V
Blades	3 Reinforced Fiber glass
Cut In wind speed	2.0m/s (4.5 mph)
Survival Wind Speed	112 mph(50 m/s)
Rated wind speed	9m/s (20 mph)
Overspeed Protection	Yawing (Mechanical)/Manual
Generator output	Three-phase frequency conversion AC
Generator efficiency	85%
Warranty	Three years
Unit Price	Rand
Wind turbine	5910
Wind Turbine Inverter & Controller	2325
6m Guy Tower	1420



- 1. Start at Breeze
- 2. Easy for installation and operation
- 3. More reliability and durability with quiet-stable running
- 4. More efficient energy delivery with maintenance-free
- **5. Direct-drive PM Alternator with Aluminum frame** cast sealed
- 6. Auto Furl Automatic protection protects the turbine in high winds by turning the alternator and blades out of the wind
- 7. Perfect choice for solar-hybrid complement system with year-round energy supply
- 8. Warranty: wind turbine with Three years Warranty, control system with one year Warranty

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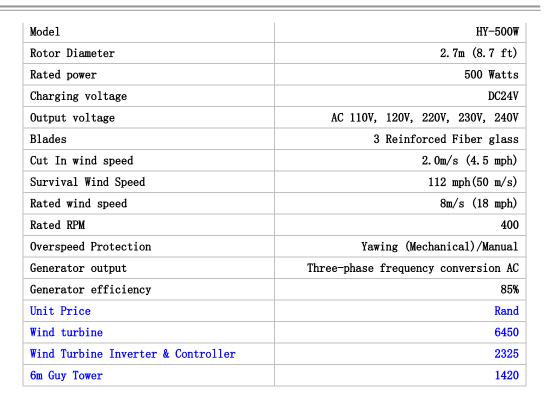


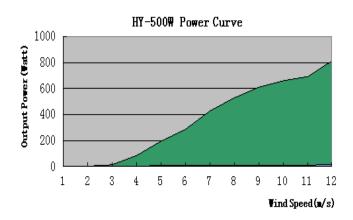


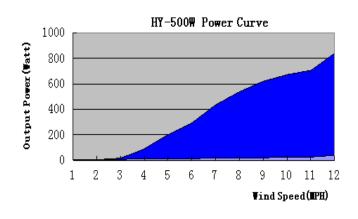
**Wind Turbine Controller** 



**Pure Sine Wave Inverter** 







- 1. Start at Breeze
- 2. Easy for installation and operation
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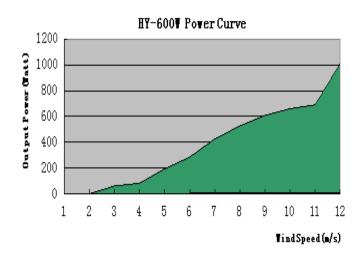


**Wind Turbine Controller** 

Model	HY-600W
Rotor Diameter	1.5 m
Rated power	600 Watts
Charging voltage	DC24V
Output voltage	AC 110V, 120V, 220V, 230V, 240V
Blade	3 Reinforced Fiber glass
Start up wind speed	2.0m/s (4.5 mph)
Survival Wind Speed	123 mph(55 m/s)
Rated wind speed	11m/s (24 mph)
Rated RPM	400
Speed regulation	Yawing (Mechanical)/Manual
Generator output	Three-phase frequency conversion AC
Rated charging current	25 A
Generator efficiency	85%
Recommend battery capacity	12V200AH * 2pcs
Unit Price	Rand
Wind turbine	8000
Wind turbine Inverter & Controller System	3100
6m Guy Tower	1420



**Pure Sine Wave Inverter** 



- 1. Start at Breeze
- 2. Easy for installation and operation
- 3. More reliability and durability with quiet-stable running
- **4.** More efficient energy delivery with maintenance-free
- **5. Direct-drive PM Alternator with Aluminum frame** cast sealed
- 6. Auto Furl Automatic protection protects the turbine in high winds by turning the alternator and blades out of the wind
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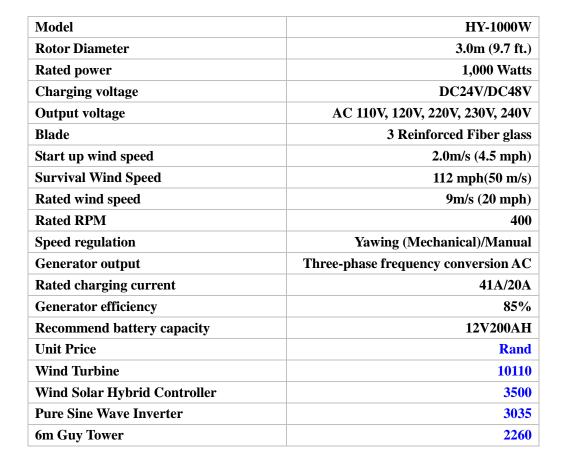


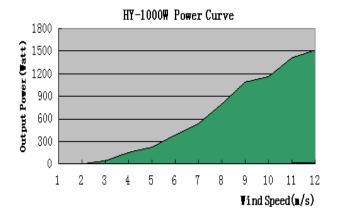


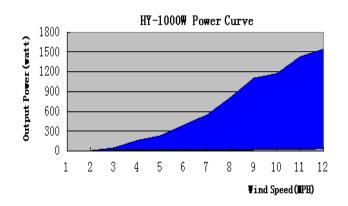
Wind Turbine Controller System



**Pure Sine Wave Inverter** 







#### **Feature:**

- 1.Start at Breeze
- 2. Easy for installation and operation
- 3. More reliability and durability with quiet-stable running
- 4. More efficient energy delivery with maintenance-free
- **5.Direct-drive PM Alternator with Aluminum frame cast** sealed
- 6.Auto Furl Automatic protection protects the turbine in high winds by turning the alternator and blades out of the wind
- 7.Perfect choice for solar-hybrid complement system with year-round energy supply
- **8.** Warranty: wind turbine with Three years Warranty, control system with one year Warranty

### **Application:**

- \*Remote home and cabins
- \*Water Pumping
- \*Off shore beacons and remote monitoring equipment
- \*Sailboats-Recreational boating
- \*Science and education projects
- \* Battery charging

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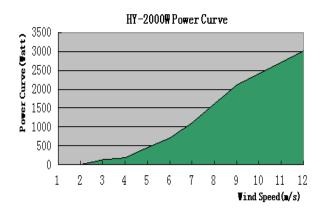


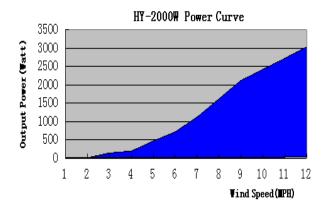


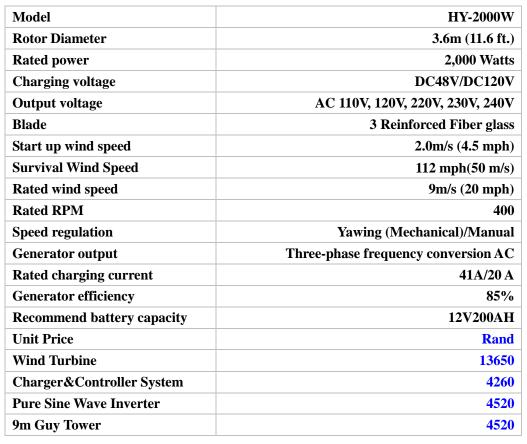
Wind Turbine Controller



**Pure Sine Wave Inverter** 







### Feature:

- 1. Start at Breeze
- 2. Easy for installation and operation
- 3. More reliability and durability with quiet-stable running
- 4. More efficient energy delivery with maintenance-free
- **5. Direct-drive PM Alternator with Aluminum frame cast** sealed
- 6. Auto Furl Automatic protection protects the turbine in high winds by turning the alternator and blades out of the wind
- 7. Perfect choice for solar-hybrid complement system with year-round energy supply
- **8.** Warranty: wind turbine with Three years Warranty, control system with one year Warranty

#### **Application:**

- \*Remote home and cabins
- \*Water Pumping
- \*Off shore beacons and remote monitoring equipment
- \*Sailboats-Recreational boating
- \* Battery charging
- \* Grid tie system

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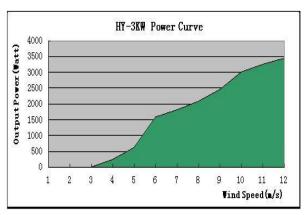
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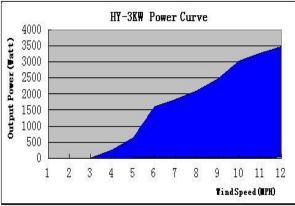


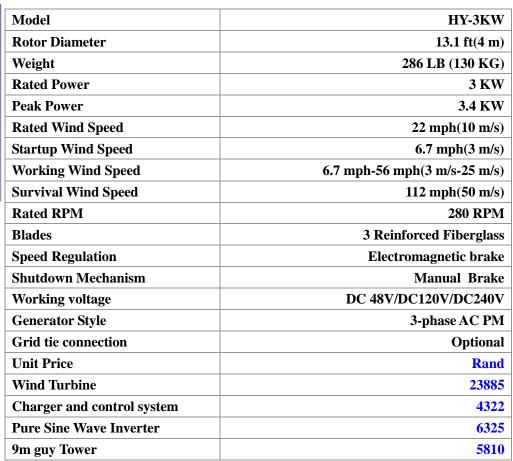
**Controller System** 



**Pure Sine Wave** Inverter







- 1. Strong and Powerful: Direct PMG with 90% generator efficiency. High precision-cast steel and hot-dipped galvanized for anti-corrosion protection on generator.
- 2. Double speed regulation: adopts speed regulation mechanisms. Manual brake system will protect the wind turbines in strong wind over 25m/s(56mph).
- 3. More reliability and durability with quiet-stable running
- 4. The graphite brush and slip ring fixed inside the wind turbines will prevent the cable twisted.
- 5. Warranty: wind turbine with Three years Warranty, control system with one year Warranty

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Inverter



**Control System** 

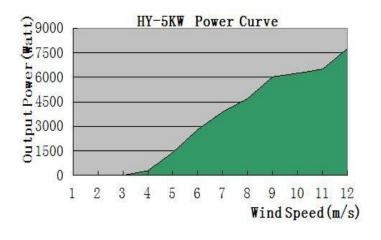
Model	HY-5KW	
Rated Power	5 KW	
Peak Power	7.7 KW	
Rotor Diameter	20 ft(6.2 m)	
Rated Wind Speed	26 mph(12 m/s)	
Cut In Wind Speed	5.6 mph(2.5 m/s)	
Working Wind Speed	6.6 mph-56 mph(3 m/s-25 m/s)	
Survival Wind Speed	112 mph(50 m/s)	
Rated RPM	200 RPM	
Blades and Material	3 Reinforced Fiberglass	
Over speed protection	Auto-Furling&Hydraulic Brake	
Shutdown Mechanism	Manual/Hydraulic Brake	
Output voltage	240V DC	
Generator Style	3-phase AC PMG	
Grid tie connection	Optional	

#### Price and description

Wind Turbine: R 55220

Wind Turbine Control system: R 11300

Pure Sine Wave Inverter: R 17340 12m guy tower(Optional): R18270



### Feature:(HY-5KW)

- 1. Strong and Powerful: Direct PMG with 90% generator efficience. High precision-cast steel and hot-dipped galvanized for anti-corrosion protection on generator.
- 2. Manual & Hydraulic brake : wind turbine are equipped with manual brake system and Hydraulic brake system to protect the wind turbine system.
- 3. The graphite brush and slip ring fixed inside the wind turbines will prevent the cable twisted.
- 4. More reliability and durability with quiet-stable running
- 5. More efficient energy delivery with maintenance-free
- **6.** Warranty: wind turbine with Three years Warranty, control system with one year Warranty

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Controller



Inverter

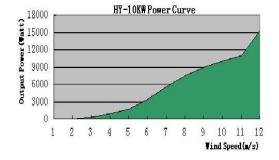
Model	HY-10KW
Rated power (W)	10,000 Watts
Charging voltage (V)	DC240V
Output voltage (V)	AC 110V, 120V, 220V, 230V, 240V,380V
Blade material	3pcs Glass Fiber Reinforced Plastic
Blade diameter	8.0m (26 ft.)
Start up wind speed(m/s)	2.5m/s (5.6 mph)
Survival wind speed (m/s)	50m/s (112 mph)
Rated wind speed(m/s)	10m/s (22 mph)
RPM	180
Speed regulation (protection)	Yawing (Mechanical) & Hydraulic brake
Yaw mechanism	Hydraulic Brake
Yaw mode	auto/manual
Protection mode	Yaw, Hydraulic brake, dump load
Generator output	Three-phase frequency conversion AC
Rated charging current (A)	42
Generator efficiency	90%

### Price and description

Wind Turbine: R 96750

Wind Turbine Control system: R 28389

Pure Sine Wave Inverter: R 41280 12m guy tower(Optional): R45150



### Feature:(HY-10KW)

- 1. Strong and Powerful: Direct PMG with 90% generator efficience. High precision-cast steel and hot-dipped galvanized for anti-corrosion protection on generator.
- 2. Manual & Hydraulic brake : wind turbine are equipped with manual brake system and Hydraulic brake system to protect the wind turbine system.
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