



Efficient

The core technologies are from Germany.

- Wider voltage range, lower starting voltage and higher conversion efficiency (Max efficiency can reach to 97.8%).
- **Adap to the complex conditions of roof, improve power generation.**



Handheld HMI



WiFi 200
GPRS 200



PhoneExpert
InfoExpert
Monitoring Center



SysExpert



Smart

- Smart grid adaptive to meet the requirements of various power grid access.
- Variety of monitoring modes: APP (one-button registration), large screen data monitoring center, cloud monitoring platform.
- Support RS485,GPRS,WIFI, GPRS200.



Reliable

- Aluminum casing, natural cooling, IP65 protection level.
- Adopt internationally famous brand components to ensure the stable operation of inverter.
- Insured by well-known international property insurance company (AIG) for Products /Completed Operations Liability Insurance



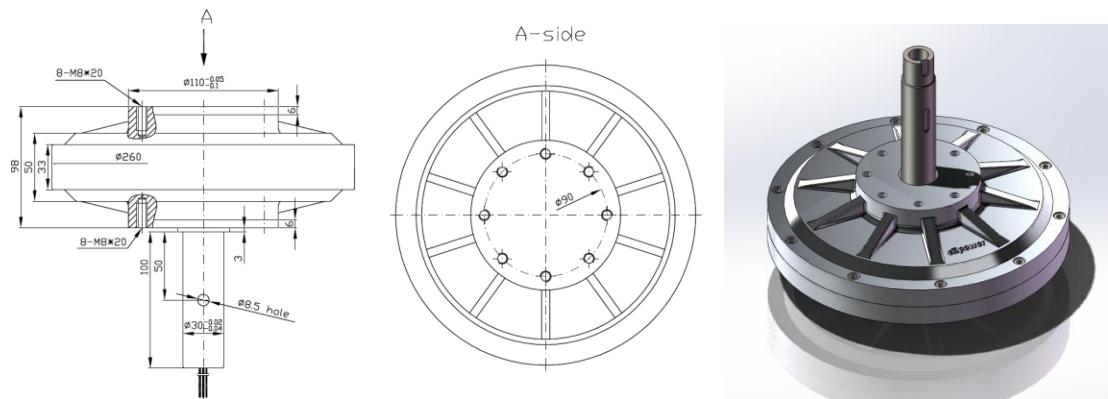
Simple

- Home appliance design, easy to operation.
- Small in size, light in weight, easy to install.

Specification

Max. DC input power (W)	6000
Max. DC input voltage (V)	600
Starting voltage (V)/ Min. operation voltage (V)	120/100
MPPT Range(V) / Rated input voltage(V)	120-550 /360V
Number of MPPT / String per MPPT	1/2
Max. DC current (A) Per MPPT x Number of MPPT	23x1
DC switch	Optional
Output (AC)	
Rated output power (W)	5000
Max. AC output current(A)	24
Grid voltage range	230/180-277V
Grid frequency range	50Hz(44-55Hz) / 60Hz(54-65Hz)
Power factor	≥ 0.99 (at rated power)
THDi	< 3% (at rated power)
AC output	Single-phase(L, N, PE)
System	
Cooling method	Natural cooling
Max. efficiency	97.70%
Euro-efficiency	96.70%
MPPT efficiency	99.90%
Protection degree	IP65
Self-consumption(at night)	<1(W)
Topology	Transformerless
Operating temperature range	-25℃~+60℃(derate after 45℃)
Relative humidity	0-95%0-95%, no condensation
Protection	Ground fault monitoring,Grid monitoring, Grid monitoring, Island protection, DC monitoring, Short currorection, DC monitoring, Short current protection etc.
Display and communication	
Display	LCD (standard) / LED(optional)
LCD language	English, Chinese, German, Dutch
Communication interface	RS485 (standard) ; WiFi, GPRS200(optional)
Mechanical parameters	
Dimension (H x W x D m)	2m x2m x 2m
Weight (kg)	≤20
Installation	Pole Mounted
Others	
DC terminal	Waterproof terminals
Grid qualification	DIN VDE 0126-1-1: 2013, VDE-AR-N 4105: 2011, DIN VDE V 0124-100: 2012, GB3-2 :2012, G59/3-2: 2015, IEC 61727(IEC62116), AS/NZS 4777.2: 2015, NB/T32004-2013, IEC 60068-2-1: 2007, IEC 60068-2-2: 2007, IEC 60068-2-14: 2009, IEC 60068-2-30: 2005, IEC 61683: 1999
Safety certificates / EMC certificates	IEC 62109-1 : 2010, IEC 62109-2 : 2011, EN 61000-6-2: 2005, EN 61000-6-3:2007/A1:2011
Factory warranty	5 years(standard)

5KW FAN TURBINE GENERATOR



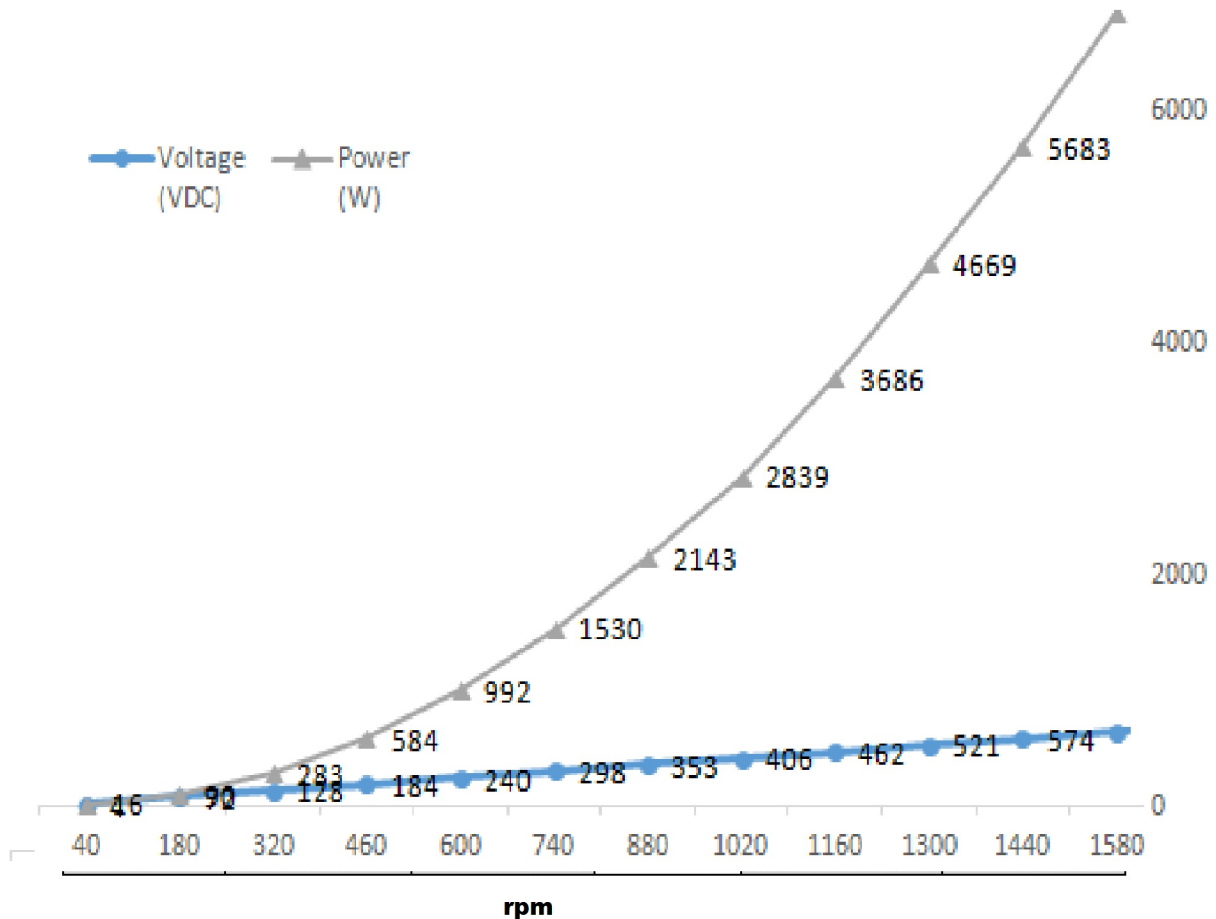
TECHNICAL PARAMETERS

Parameter	Units	Data
Power	KW	5
Start-up Speed	mph	1
Cut-in Wind Speed	mph	5
Output Form	AC	3 phase
Efficiency		> 85%
Winding Type		Y
Leakage Current	ma	< 5 ma
Insulation		H class
Type	Nm	< 0.1
Temperature rise	°C	< 80
Max.working temperature	°C	< 120
Generator diameter	mm	260
Rotor Diameter	m	2
Overspeed Protection		Y
Structure		4 Blade
Stator type		coreless
Housing material		Aluminum Alloy
Blade material		Carbon Composite
Blade weight		1KG Each
Weight	Kg	20
Design lifetime	Year	> 20

RANGE OF APPLICATION

Power curve - wind turbine

TEST-DATA&CURVE



GENERATOR

Low starting wind speed, Small, High Energy, Light weight, Compact structure, High efficiency etc.

- 1) Coreless, anhysteresis, slotless, low starting torque.
- 2) No iron loss, have high efficiency
- 3) Unique coreless precision winding technology design precision coil
- 4) The rare earth permanent magnet, which is multipole, high power density and high output power.
- 5) Low speed direct drive, no torque fluctuations
- 6) Compact structure, high ratio of power to volume
- 7) No iron loss, low calorific value, low heat
- 8) Simple structure, easy to install
- 9) The brushless structure, maintenance free



Product Service

Attestation of Conformity

No. N8A 15 12 72237 092

Holder of Certificate:**Product:**

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. See also notes overleaf.

Test report no.: 64290150166001**Date,** 2015-12-09
(Billy Qiu)

CE After preparation of the necessary technical documentation as well as the EU conformity declaration the required CE marking can be affixed on the product. That declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

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Product Service

Attestation of Conformity
No. N8A 15 12 72237 092

Model(s):

Parameters:

Tested according to: EN 62109-1:2010
EN 62109-2:2011



Product Service

Attestation of Conformity

No. E8A 15 12 72237 093

Holder of Certificate:

Name of Object:

Model(s):

Description of Object:

Tested according to: EN 61000-6-3:2007/A1:2011
EN 61000-6-2:2005

This Attestation of Conformity is issued on a voluntary basis according to the Directive 2014/30/EU relating to electromagnetic compatibility. It confirms that the listed apparatus complies with all essential requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. See also notes overleaf.

Test report no.: 687601562401

Date, 2015-12-18


(Paul Yu)



After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. That declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

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