

PRODUCT SPECIFICATION

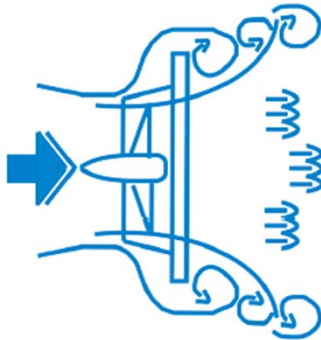
(Wind Turbine Model: EGE-WT-200KW (A))

I. Features

- Start-up under very light breeze (1.8m/s), start generating power at low wind speed (3m/s).
- Automatic wind direction tracing
- Compacted structure, more safe.
- 3+ times higher transferring rate than competitors.
- Low noise, high reliability, easy to set up.
- CE certified, passed the grid-connected test in Japan



II. Principle of the Brim



- Vortex created by the brim reduce the pressure behind the turbine.
- It makes more wind flow to the low pressure region, which increase the wind speed 1.4 time.
- Since the power generation is proportional to the cube of the wind speed, the output is increased to about three times (compared with competitors with the same rotor diameter.)

III. Wind Turbine Technical Specifications

Basic Parameters	
Rated output power	200KW
Wheel diameter	18.1m
Windlens diffuser diameter	21.76m
Start up wind speed	3m/s
Rated wind speed	12m/s
Cut out wind speed	25m/s
Security wind speed	60m/s
Service life	20year
Yaw	Automatic
Tower type	Steel pipe
Hub Height	30m
Weight turbine	35000kg

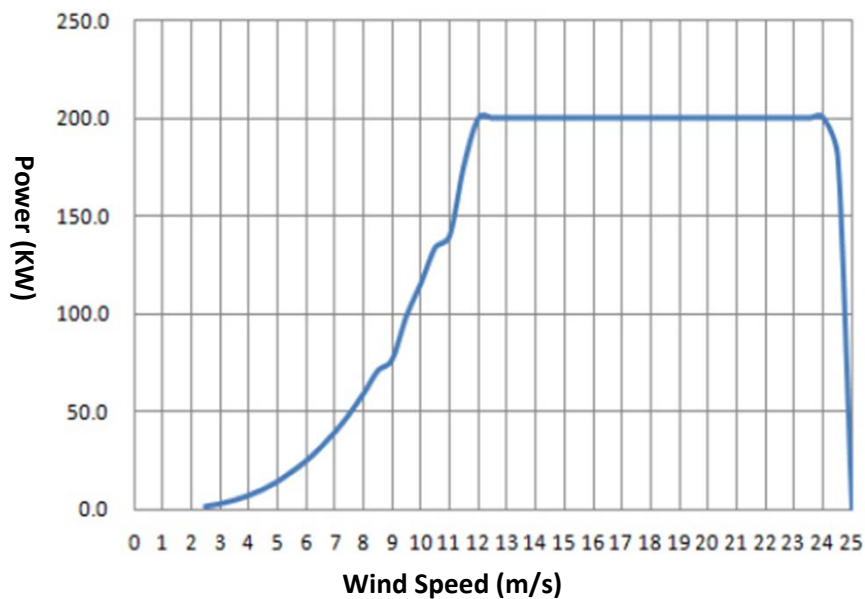
Generator Parameters	
Type	Permanent magnet synchronous
Rated power	220KW
Rated voltage	400V
Protection	IP44

Blade Parameters	
Material of blade	Light FRP
Number of blade	3
Rated turns	60rpm
Wind area	257m ²
Rotation sense	downwind

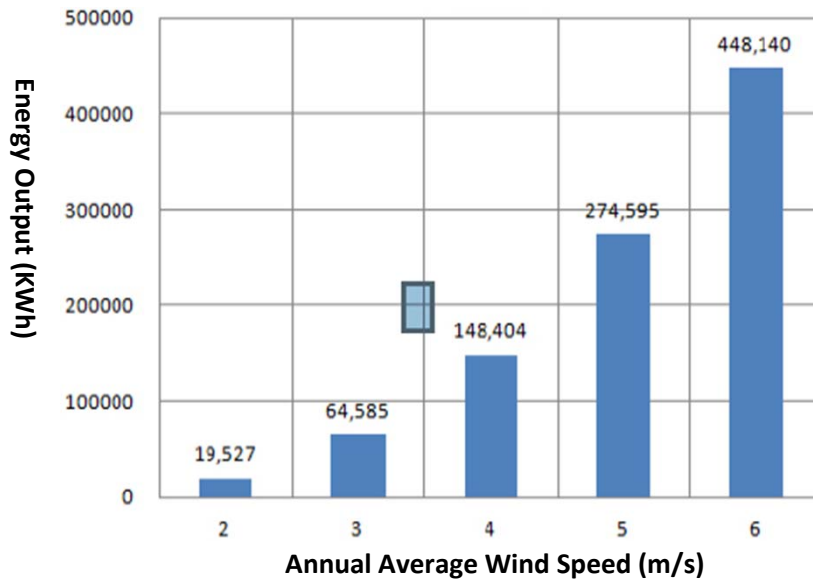
Controller/Inverter	
Type	ON grid
Out put voltage	380/400VAC \pm 5%(Tri-phase)
Out put frequency	50Hz \pm 0.5Hz
Current harmonics	\leq 5%
Work temperature	-20 $^{\circ}$ C \sim +50 $^{\circ}$ C
Relative humidity	<95% (temperature20 $^{\circ}$ C \pm 5 $^{\circ}$ C)
Control system	MPPT/MPL
Communication	RS485/CAN/WIRELESS
Interface language	Chinese/Japanese/English
Protection	Fail-safe protection of mechanical brake via electromagnetic electricity-lost block device
Brake system	
Main brake	Hydraulic pressure brake
Second brake	Hydraulic pressure brake
Brake protection	Failure protection



IV. Power Curve



V. Annual Energy Output



VI. Application

