

200KW Wind Turbine Technical Specifications:

Rated power : 200KW
Rated voltage : 690v DC
Rotor diameter: 30m
Start-up wind speed: 3m/s
Rated wind speed: 13m/s
Security wind speed: 60m/s
Yawing type: electronic
Rated rotating rate: 85 r/m
Generator work way: magnetic saturation
Generator material: steel
Blade material: fiber glass
Blade quantity: 3pcs
Free stand tower height: 32m
Matched inverter type : off grid or grid connected inverter (optional)

200KW Wind Turbine Price List

Model	FD20.0-200000
Rated power (W)	200KW
Rated voltage (V)	690V
Rotor diameter (m)	29
Start-up wind speed (m/s)	3
Rated wind speed (m/s)	13
Safety wind speed (m/s)	50
Yawing type	electronic
Rated rotating rate (r/m)	50
Generator work way	Magnetic saturation
Generator material	Steel
Blade material	FRP
Blade quantity	3
Off grid system	
Wind generator price(USD)	\$629411.10
Blade price (USD)	69664.70
Controller price (USD)	5786.80
Free stand tower price(USD)	128528.60
Off-grid inverter price (USD)	67647.60
Suggested battery capacity	12v200ah406pcs
Battery group price (USD)	149408.00
OFF grid system	

3. Factory Warranty: wind generator 3 years, controller, blade and inverter 1 year.

Wind generator price(USD)	\$629411.10
Blade price (USD)	69664.70
Controller price (USD)	69664.70
On-grid inverter price (USD)	129,412.00
Free stand tower price(USD)	148823.80

200KW Generator Testing Reports (200kw)

PN: J01080750002

Model	FD20-20kw	PD	2008-7-5
Rated power	200KW	Rated voltage	DC 690V
Protection level	IP54	Cable method	Y
Cooling means	Natural air cooling	Insulated level	F

3. Environment:

B) Temperature: 34°C B) Humidity: 58%

4. Testing Items

4.1 Mechanism Inspect:

Turning Passing/Failing Pass Remark: _____
 Outside Check Passing/Failing Pass Remark: _____

4.2 Insulated Resistance:

Testing Items	Value (MΩ)
Between windings and body of generator	≥1000
Between a phase and body of generator A	≥1000
Between b phase and body of generator B	≥1000
Between c phase and body of generator C	≥1000

4.3 Starting Torque:

Time	1	2	3
Torque(Nm)			

4.4 DC Current when generator is working. DC

Test Items	Result (Ω)
A and B phase DC resistance A B	>5 Ω
B and C phase DC resistance B C	>5 Ω
C and A phase DC resistance C A	>5 Ω

4.5 Withstand voltages

Test items	Voltage (V)	Current (mA)	Time (min)
Between three phase windings and body of generator	3000	0.5	1
A and B phase A B	3000	10	1
B and C phase B C	3000	10	1
C and A phase C A	3000	10	1

4.6 No-load Test:

Frequency (Hz)	Rotor speed (rpm)	Three phase output voltage (V)			Commutating voltage (VDC)
		A-B	B-C	A-C	
16.7	40	337.6	337.5	337	465
20.8	50	423.6	423.7	423	588
25	60	511.1	511.2	511.2	707
29.2	70	596.4	596.4	596	822
33.3	80	683.1	683.2	683	944
37.5	90	769.1	769.1	769	1057
41.7	100	848.6	848.7	848.6	1176
45.83	110	935.5	935.6	835.6	1296
50	120	1020.7	1020.7	1020.8	1413

4.7 Over speed test at No-load condition:

Passing Failing

4.8 Short circuit Test

Rated rotor speed (rpm)	Short circuit current IAC (A)
85	1450

4.9 No-load test after short circuit

Rated rotor speed (rpm)	VAC (V)
85	520

Wind speed(m/s)	2m/s	6m/s	10m/s
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3.0 Power test:

Rated rotor speed (rpm)	DC(V)	DC(A)	Output power (W)
85	690	290	200000

3.1 All test items match with GB/T 10760.1-2003 GB/T1029-1993 JBT9578-1999 standard(GB/T 10760.1-2003 GB/T1029-1993 JBT9578-1999)

200KW NOISE REPORT

The distance between wind turbine and test equipment is 0m, 25m, 50m, 75m, 100m, 125m & 150m. It has been tested for several times, so the result is average number.

Noise (0m)	0db	52.3	63.5
Noise (25m)	0db	50.8	61.2
Noise (50m)	0db	48.6	58.8
Noise (75m)	0db	46.3	56.4
Noise (100m)	0db	43.7	53.8
Noise (125m)	0db	41.4	51.5
Noise (150m)	0db	38.6	48.5

200KW wind turbine power curve

5m/s 10 hours @ avg power 40kw = est 12,166 kwh monthly
7.5m/s 10 hours @ avg power 100kw = est 30,416 kwh monthly
10m/s 10 hours @ avg power 155kw = est 47,145 kwh monthly

