

New Series of 10KW, 20KW and 30KW WTGS

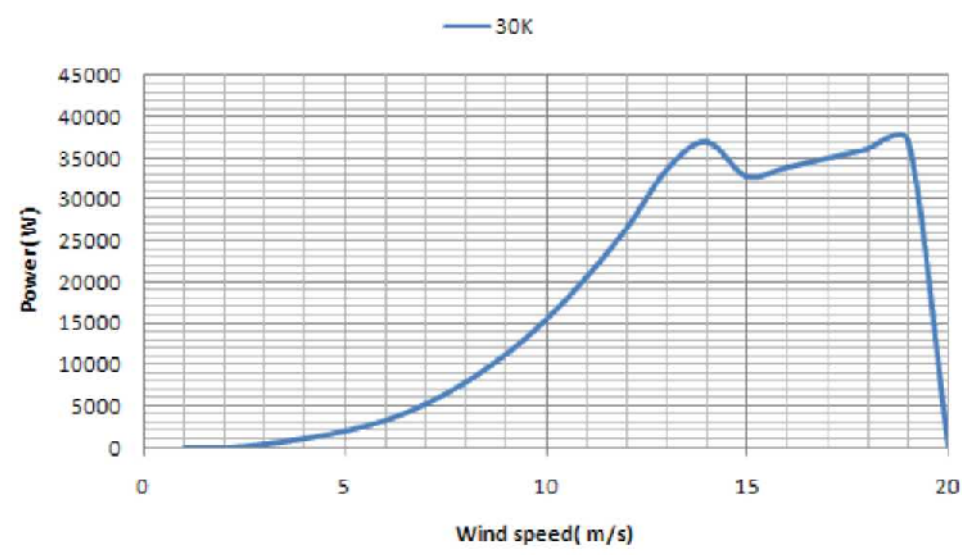
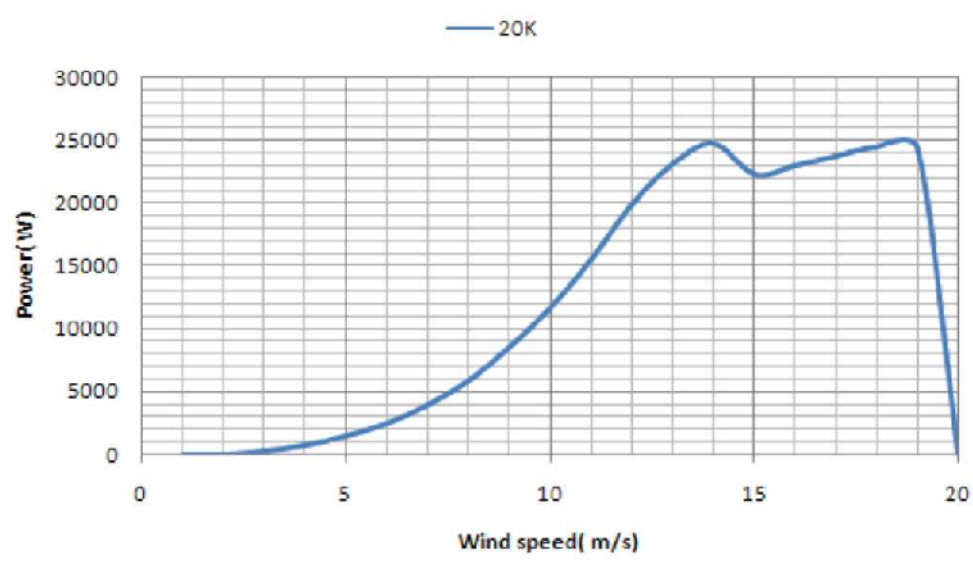
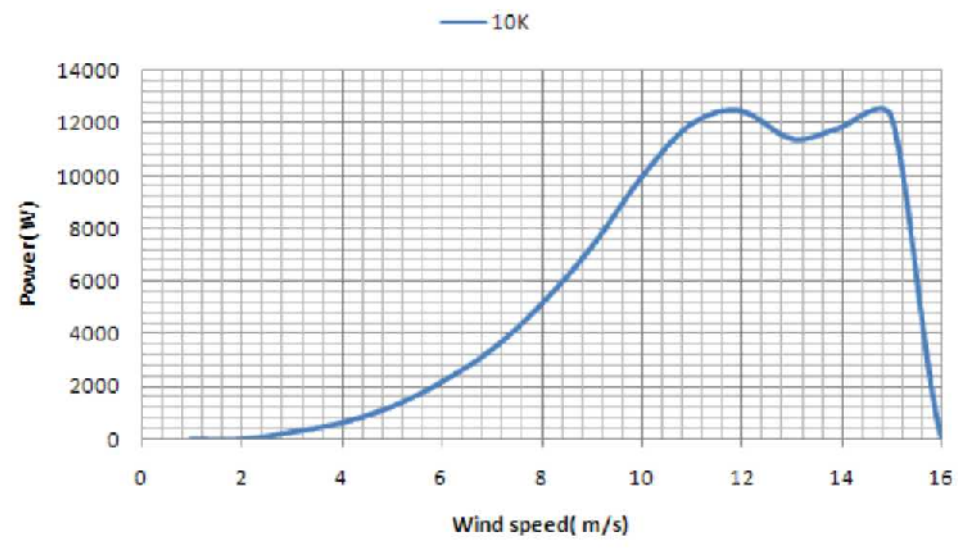
Better Quality, Better Performance

Trough series of development, we launch the updated 10KW, 20KW and branded-new 30KW wind turbine generator systems. Please refer to the following table for the relevant parameters.

Model	FD8.0-10000	FD 12.0-20000	FD12.0-30000
Rated voltage (DCV)	240	360	360
Rated current (DCA)	42	56	83
Rated power(KW)	10	20	30
Rotor diameter(m)	8.0	10.0	12.0
Blade material	GFRP	GFRP	GFRP
Start-up wind speed (m/s)	2.5	2.5	2.5
Rotation direction (You stand leeward)	Clockwise	Counter clockwise	Counter clockwise
Rated wind speed (m/s)	10	12	12.5
Cut-out wind speed (m/s)	16	20	20
Survival wind speed(m/s)	45	45	45
Wind turbine type	Upwind	Upwind	Upwind
Wind turbine tilt-angle	6°	6°	6°
Rated RPM (RPM)	180	90	75
Blade No.	3	3	3
Hydraulic tower height (m)	12	18	18
Cable length(m)	20	20	20
Annual yield(kWh)	24000	48000	70000
Yaw mechanism	hydraulic	hydraulic	hydraulic
Yaw mode	auto/manual	auto/manual	auto/manual
Efficiency	0.6	0.6	0.6
Net weight (T)	1.0	1.1	1.2
Protection mode	- Yaw - Hydraulic brake - dump load	-- Yaw - Hydraulic brake - dump load	- Yaw - Hydraulic brake - dump load

* The annual yield is calculated in theory based on the good wind resources.

Power Curves



Appearance

1. Streamlined fibre glass nacelle
2. Stable operation



Hydraulic tower

1. Patented
2. Easy installation and Maintenance for WTGS
3. Save expenditure from hiring the Crane.
4. Only involving 20 minutes to finish the erection and lay-down.



Hydraulic motor

1. Higher torque compared to Electric one.
2. Non-burnt even locked-rotor
3. Normal yaw even under strong wind speed.



Control units

1. Mitsubishi PLC.
2. Outstanding anti-jamming.
3. Intelligent control has been achieved by combine various sensors.

Hydraulic brake

1. The pressure will be increased gradually when braking, which will



minimize the damage caused by
blade inertial rotation.

2. The pressure can be maintained
once braking.
3. Longer lifespan compared to
electric brake

Generator

1. Outstanding permanent (Nd-Fe-B).
2. Abundant in yield
3. Low start-up torque



Rotary fulcrum

1. High-strength rotary fulcrum.
2. Wider installation extent enables more connection for WTG and tower.



Data module

1. Wireless GPRS or wire connection can be optional
2. Data can be transmitted to the server instantly.
3. We can provide you with operation suggestions or remote control according to the data collected during the wind turbine generator operation.