



TAOS GRID-TIED WIND POWER SYSTEM TGT-2

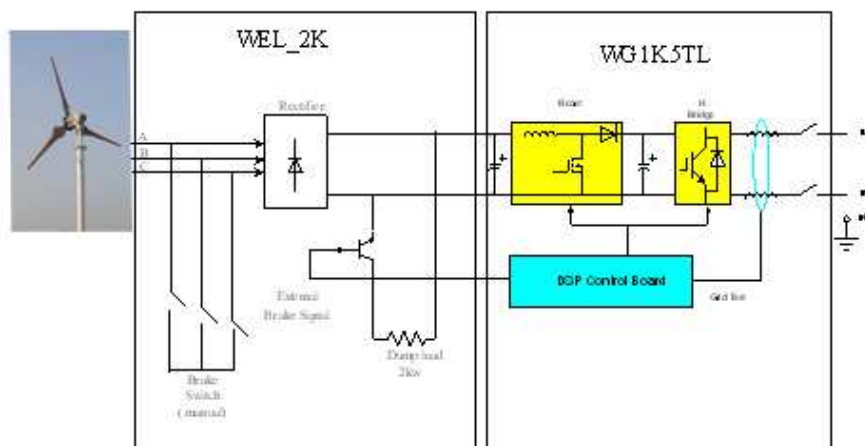
TAOS grid-tied wind power system **TGT-2** is a **safe** distributed generation(DG) system, **economical** power for resident home and small businesses, and contributes to **carbon offsetting**.

The most important safety issue for DG system is a condition called *islanding*. Islanding is a situation where a portion of the utility system that contains both loads and generation source is isolated from the remainder of the utility system but remains energized. The safety concern is that utility power goes down and a DG system continues to supply power to a local area, out of the utility control. There is safety problem virtually for “rotating generator”, induction and synchronous generator, on site which is a traditional distributed generation as long as electricity has been used.

TAOS grid-tied wind power system is a safe DG system. TAOS grid-tied wind power system interconnects to utility through a grid feeder which is synchronous in frequency and phase with utility, “vassal” to utility, and with built-in anti-islanding safety features. The grid feeder monitors the utility line and can shut itself off as quickly as necessary (less than a second) in the event that abnormalities occur on the utility system. There is virtually no chance of an islanding condition stemming from TAOS grid-tied wind power system.



TAOS Grid-tied Wind Power System TGT-2





Grid-tied wind turbine TAOS2000G for TGT-2

Specification

Rotor diameter	2.8m
Start-up wind speed	3m. s⁻¹
Cut-in wind speed	2.6m. s⁻¹
Rated wind speed	12m. s⁻¹
Survival wind speed	60m. s⁻¹
Rated output	2000W



Feature

- * Rotor blades from super-strength engineering plastic; Shaped by precision injection moulding process.
- * Alternator with high grade NdFeB permanent magnets.
- * Excellent low wind performance; High energy efficiency.
- * Most reliable float brush-ring design.
- * Passive yawing downwind structure design without tail-van (pat.); Only two pairs of moving part; Structure compacter and more reliable; Ability to 'catch' wind is high much owing the lower yawing inertia.
- * Microprocessor ensures whole system operation efficiently, safely and reliably.
- * Maintenance free design.



Grid-tied inverter with dump-load for TGT-2

Type	WG1K5TL
Rated output power (KW)	1.5
Max. output power (KW)	2
Utility voltage (VAC)	230V single phase (180V~265V)
Utility frequency (HZ)	50/60
Protection function	<ul style="list-style-type: none"> ● Wind turbine overload protection ● Wind turbine feathering protection ● Grid voltage and frequency abnormal protection ● Utility grid islanding protection ● Over-heat protection

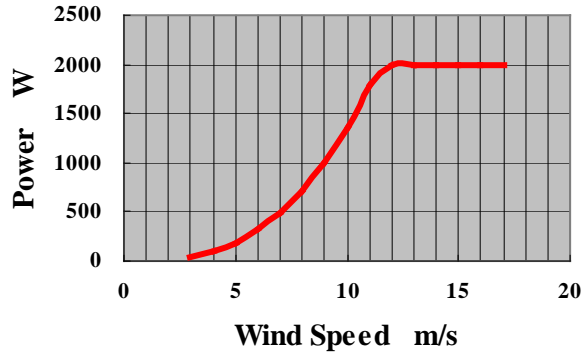
Feature

- DSP controller
- MPPT (Maximum Power Point Tracking) technology
- High efficiency up to 95%
- Perfect protect functions include anti-islanding
- In accordance with IEEE929-2000, UL1741
- A LCD display for monitoring all system information
- Set the operation parameters via LCD and keys
- Boost circuit provide wide AC input range

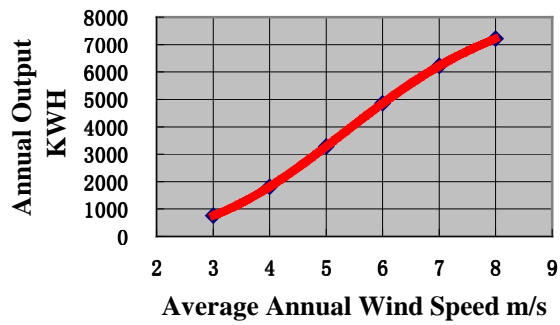




TGT-2 Output Curve



TGT-2 Annual Output



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