



Winglette

WIND POWER FOR YOU...

Electricity

For you...

ABOUT US

BENEFITS

PRODUCTS

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—Grid tie Inverters...

Your **Winglette** wind generator, with a suitable **Grid tie Inverter**, can actually sell any excess power produced by your **Winglette**, back to the utility Company. This is called "**net metering**".



Model W03



What is net metering? "Net-metering" is a method of metering the energy consumed and produced at your home or business, by your **Winglette** wind generator. Excess electricity produced by the **Winglette will turn the electricity meter backwards**. This provides you with full retail value for all the electricity produced.

You can use the electricity generated by your **Winglette** to supply your own lights and appliances, offsetting electricity they would otherwise have to purchase from the utility. In other words, you are only billed for the net energy consumed during the billing period.

Why is net metering important? There are three (3) reasons.

1. Because wind energy is an intermittent power source, you may not be using power as it is being generated. Net metering allows you to **receive full value** for the electricity you've produce without installing battery storage systems. This directly affects the **economics** and **pay-back period** of your **Winglette** system.

2. Net-metering **reduces** the your installation **costs** by eliminating the need for a second energy meter.

3. Net metering provides a simple, inexpensive, and easily-administered mechanism for your **Winglette** wind energy system, to provide local, national, and global benefits to the **environment** and the economy.

To **find out** if your local utility Company offers "net metering" with its accompanied **benefits**, click on the following link: <http://www.dsireusa.org>

PICTURE GALLERY



MLT Inverter.**Testimonials.**

In the end, it is what our customers say that really matters. Here are the comments of some of them:

Johnny Hanekom, Keetmanshoop, Namibia:

The two (2) machines that I've bought, exceed all my expectations as far as power generation is concerned. I am really pleased with their performance, and I am planning to buy the third unit.

Johnny van der Linde, Groblershoop: We are retired on our farm outside Groblershoop, and have always experienced a shortage of electricity from the solar panels we had. With our Winglette wind generator now installed, we are seeking ways to utilize the abundance of power that's available now!

Nico Grobler, East Coast, Mozambique: We have a holiday home near Vilancuro, and are well pleased with our Winglette. Being a pilot for the South Africa Air ways, I just love the Winglette's modern technology and good looks!

The MLT GRIDTIE II inverter.

These MLT Grid tie Inverters is specifically designed to inject power into the utility grid, directly from you **Winglette** wind generator, without batteries, while maintaining maximum power point tracking of you **Winglette's** power output.

The inverter uses high frequency pulse-width modulated (PWM) technology and the latest switching elements (IGBTs, isolated gate bipolar transistors). This system allows the inverter to run with high efficiency and to operate silently. A toroidal iron core transformer is used. Between the output of the inverter and the output connections to the grid is an inductor.

The inverter is built in a durable epoxy coated steel box. On the front panel are seven LEDs to indicate various conditions. There is also a LCD display, to display different parameters. There are two circuit breakers on the front panel. One for the DC input from the Solar panels, and one for the AC output to the grid. The back panel consist of an aluminum heatsink to dissipate the heat generated by the switching elements (IGBTs). Fans are also provided to cool the heatsink down. There are clearly marked holes for the DC input from the solar panels and for the AC output to the grid.

A key feature of the inverter is that it maintains line power close to UNITY Power Factor utilizing the built-in Maximum Power Point Tracking unit.

Standard Features:

- Sine wave Voltage output - less than 5% total harmonic distortion
- Robust construction
- Automatic operation
- Automatic reset after overload
- High efficiency - 90% or higher
- Silent operation
- Galvanic isolation between solar panels and AC output
- Maintenance free
- Reversed polarity protected

For specific product specifications, please contact us for power ratings, input and output voltages, protection, and functionality. Click here for [MLT GRIDTIE II specifications](#).

