wattson SOLAR Plus

The energy monitor showing electricity generation, usage and net usage; Wattson Solar Plus maximises returns on your Solar PV by giving you the green light to use your free electricity.

- Measures and displays both electricity generation and usage in the home or office.

- Glows green when more electricity is generated than used, showing when to use your free electricity.

- Inverter independent, compatible with all inverter brands.

- Easifit option to remove the need for a Henley Block or junction box.

- Works with all solar, wind and hydroelectric 230 VAC generation systems.

● ABOVE AVERAGE USAGE
● YOUR AVERAGE USAGE
● BELOW AVERAGE USAGE
● EXPORTING ELECTRICITY

GLOWS GREEN WHEN YOU HAVE SPARE FREE* ELECTRICITY

Wattson Solar Plus allows you to see how much power you are generating, and how much you are using, on the same portable display.

The display shows electricity being generated and used in your home in real time, in cost, watts or kg carbon. Choose your preferred display from a selection of pre-set modes, in numbers and/or colours, for better visibility of your daily electrical activity.

Wattson Solar Plus alerts you when you are generating more power than you are using by immediately glowing green. Being aware of excess generation allows you to maximise the returns on your PV system by understanding when to use your free electricity.

INSTALLATION

Wattson Solar Plus uses sensors that simply clip around the outside of electricity cables to get its power data. The data is then sent wirelessly from the transmitter to the display.
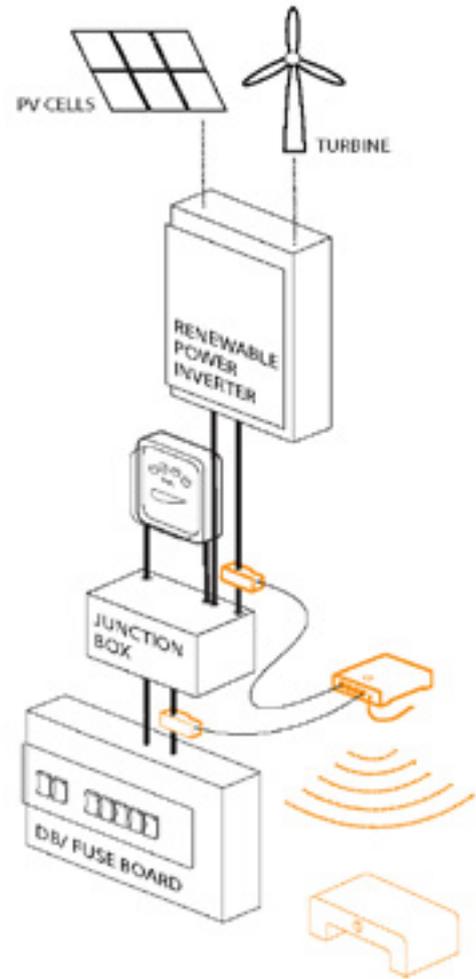
It works with 210V-240V single phase or 400V-460V three phase electricity supplies and uses flexible tariff structures to suit most pricing plans and feed-in-tariffs.

To self-fit the sensors, there needs to be access to either the live or neutral wire (single-core wires); if they are contained within a single big cable either side of the fusebox (consumer unit) then the sensors should be fitted professionally by a Solar Installer.

For 3 phase usage, simply add 2 additional sensor clips.

The ease of installation of Wattson Solar Plus in the two most common site environments is shown opposite. Installation with Easifit replaces the need for a Henley Block or junction box.

The display's internal memory can hold up to 28 days' worth of measurements. Software is available on our website to export, view and analyse generation and usage activity over long periods of time. Simply plug the device into a computer using the USB cable included.

Wattson Solar Plus with Henley Block or junction box

DISPLAY OPTIONS

USING THE BUTTON

Wattson has a single button to switch between display modes:

Grid: how much power is being imported from (+ve) or exported to (-ve) the grid

Usage: how much power is being used in real time

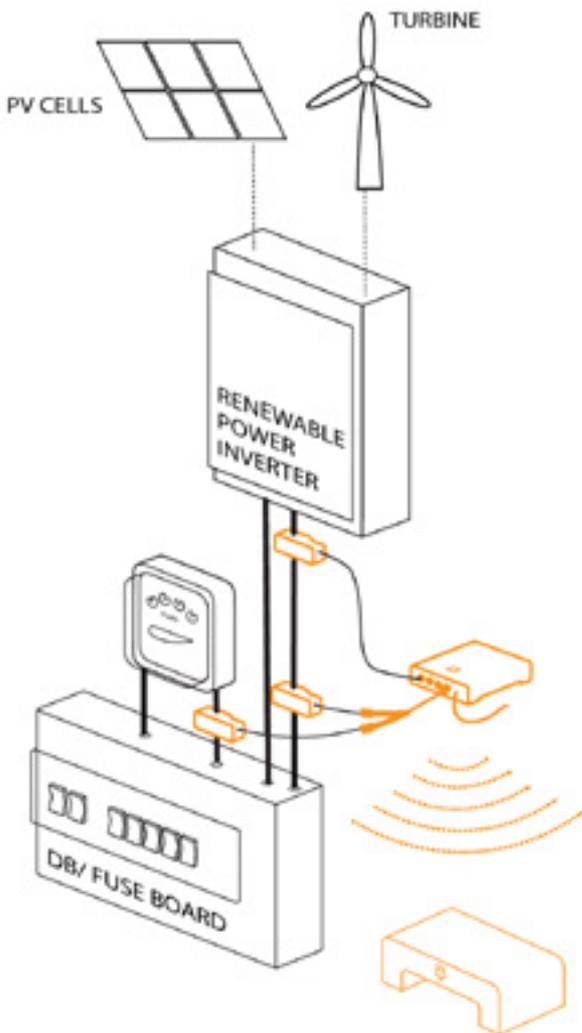**Solar:** how much power is being generated

Total Energy Generated: a counter showing how much energy has been generated in kWh, money earned and carbon saved.

Colours only: current usage displayed using Wattson colour key

Night mode: reduces the number of lights that are on, reducing the amount of energy the display uses

Clock: time together with power in watts displayed.

TURBINE

PV CELLS

RENEWABLE POWER INVERTER

DB/ FUSE BOARD

Wattson Solar Plus installation with Easifit

TECHNICAL SPECIFICATIONS

FEATURES	WATTSON SOLAR PLUS
Inputs measured	Single phase generation and up to 3 phase usage (extra 50 Amp sensor clips required for more than single phase usage).
Cable diameter	12.5mm
Max power/current	11.5kW/50Amp
Ambient light mode	RGB LED
Transmitter/receiver	433.92Mhz transmitter receiver, approx. 100m through air & 30m range in buildings
Refresh rate	3 – 20 seconds user changeable
Transmitter power	DC power (supplied) also optional battery power
USB	1.0 USB-A to USB mini-A cable supplied
Display log memory	Continuously for 28 days
Currency display	£, $, €, R, P, k, F
Software compatible	Mac & PC
Packaged weight (g)	1150
Carton contents	12 units
Equipment compliance with harmonised standards	EN 61558-1:2005 EN 300-220-2 V2.3.1 EN 301 489-1 V1.9.2 EN 61326-1:2006 EN 61326-2-2:2006 EN 61010-1:2010

TILT SELECTION

Switch between:

Watts

Cost per year

Amount of carbon in Kg or Tonnes

*FREE ELECTRICITY

As utility companies have decided not to pay hundreds of pounds per customer to install export meters, almost everyone gets paid as if they use 50% of the energy they generate and export 50% of it. That means homeowners get paid the same regardless of how much of their own generated energy is actually used.

ACCESSORIES

Wattson Solar Plus offers a range of accessories to improve usability and reduce installation costs.

Easifit
Simplifies installation by remving need to insall a Henley Block or junction box to separate the electricity usage from electricity generation. Includes 1 x 50 Amp sensor clip, 1 x Y-cable and an installation guide.

50 Amp Sensor Clips
Additional CT clips for three phase installations. Cable length is 0.75m.

3m extension cable
Three metre extension cables for when the sensor and transmitter are some distance appart.

TX for Wattson
Additional standard transmitter for Wattson. Ideal for PV systems with extra consumer units and sub-circuits. Includes 1 x transmitter and 1 x DC power supply.

TXact
A more precise sensor and transmitter to provide near meter level accuracy for the generation reading. Can measure up to 3 phases of usage with additional 50 Amp clips. Includes 1 x transmitter and 1 x P-Cable.

Wattson Display
Additional display for those who wish to show their electricity generation and usage in two or more places. Includes 1 x DC power supply and 1 x USB cable.

BPVA British Photovoltaic Association

EnerGeno Vision and Empowerment