

## PV Solar TITANIUM element



The ultimate in solar water heating!

Save by converting any electric geyser and use the power of the sun for the heating of water

All you need are 3 x 250 watt Photovoltaic (PV) panels and a Solar TITANIUM element

- No overheating
- No burn out
- No pumping
- No pump
- No freezing

Our system withstands winter conditions and still produces energy on cloudy winter's days

The really cool...erm...hot thing is that you can control the water temperature with a Dual controller which also allows you to switch from AC to DC power as and when required

- No overheating
- No burn out of element – it is dry run proof! During extensive testing the prototype was left on continuously for 26 months without water and it still did not burn out!

It is easy to install and designed to last 10 years

Suitable for any water conditions – no more worries about scale build-up: Titanium repels scale making it more energy efficient since a 1mm build-up of scale increases power consumption by 18%!

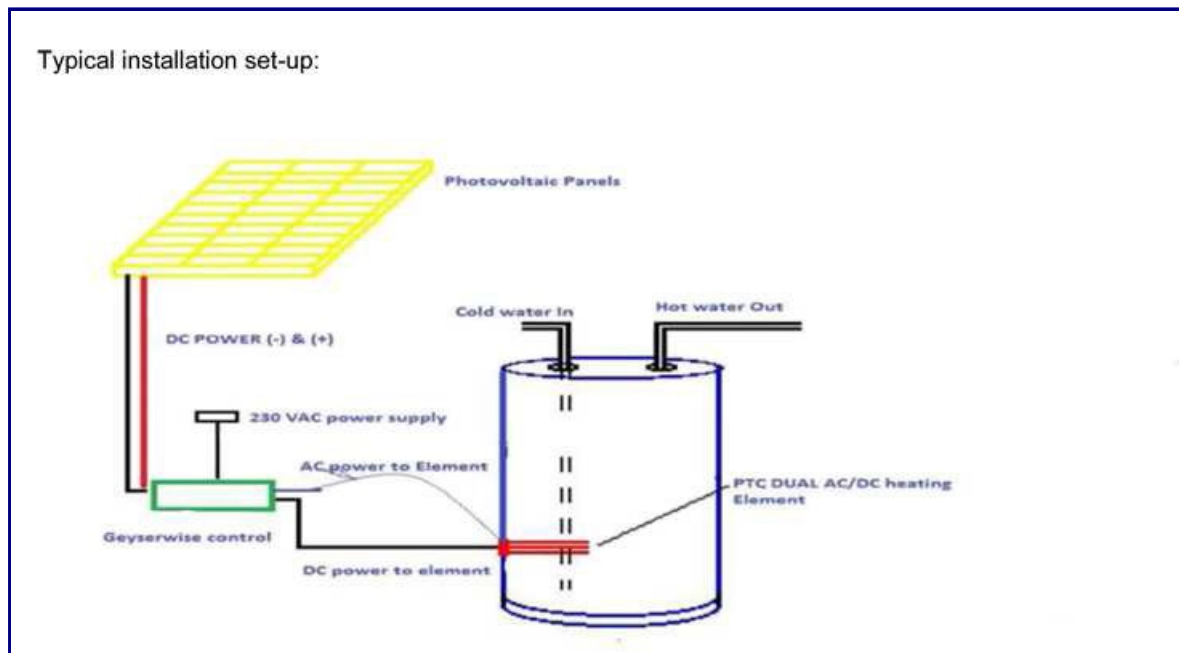
Titanium has 6% higher heat transfer than Stainless Steel and retains heat longer

The system can be expanded to incorporate an inverter and batteries to drive other electrical equipment such as lights at a later stage

No or very low maintenance

Compares very favourably with conventional solar water heaters.

TITANIUM elements are available in various fittings and are compatible with any South African geyser of any size. Estimated installation time would be around 2 hours. It is also suitable for boilers. All the elements of a boiler can be replaced with the PV Solar TITANIUM element, bringing about a substantial energy saving without the need for frequent and costly maintenance. TITANIUM elements can be used in geysers which are powered by electricity. The unit with Dual converter is ideal for use in Solar PV installations.



See wiring diagram at: <http://www.electrilabs.co.za/Solar%20Geyser%20Element%20wiring.pdf>