

MICROCARE
SOLAR ENERGY

HOT WATER GENERATOR

THE SMARTEST WAY TO HEAT YOUR WATER



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www.microcare.co.za

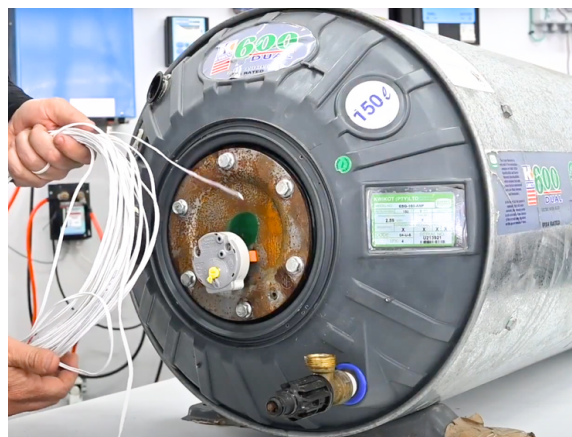
The Microcare Hot Water Generator is a locally designed product that uses standard solar panels to power a common geyser element, outperforming the current range of thermal solar geysers in the market. With no plumbing required this locally designed innovation is easy to retrofit to any system making it price competitive at initial outlay and for the lifespan of the system.

It's unique design uses solar panels, not circulating water, thus preventing the problems associated with the old style collectors that suffer from freezing over in winter and boiling over in summer. For any building the new Microcare PV Geyser Controller is the preferred solution as there is only electric wires to be installed compared to the long pipes required for traditional solar geysers. There is also no heat loss as water doesn't need to circulate and therefore no waiting for water to get hot and a reduction in waste.



Features include:

- Reduce your energy spend by up to 50%
- Fit to existing geyser with no plumbing required
- Retrofits to any 2kW, 3kW or 4kW element
- No need to replace Element or Thermostat
- Out performs solar thermal heaters & operates in inclement weather
- Efficiency greater than 96% on solar
- Mains override if no solar is present
- Wi-Fi App for set-up & daily operation
- Low heat dissipation
- Accurate digital temperature control



HOT WATER GENERATOR

The Microcare Hot Water Generator is an advanced PV-based water heating solution that uses standard solar panels to power a conventional geyser element. It delivers over 95% solar conversion efficiency, making it significantly more effective than traditional thermal solar geysers. With no plumbing, pumps, or pipes required, the system is fast to install, easy to retrofit, and compatible with any standard geyser (2kW–4kW elements).

Its innovative design removes the need for circulating water, preventing the common issues of freezing in winter and overheating in summer. Installation requires only electrical wiring—no long pipe runs—eliminating heat loss and ensuring instant hot water with minimal waste. The system also features digital temperature control, Wi-Fi connectivity for remote monitoring, and built-in AC/DC protection, making it one of the safest, smartest, and most efficient solar hot water solutions available.



FEATURES INCLUDE:

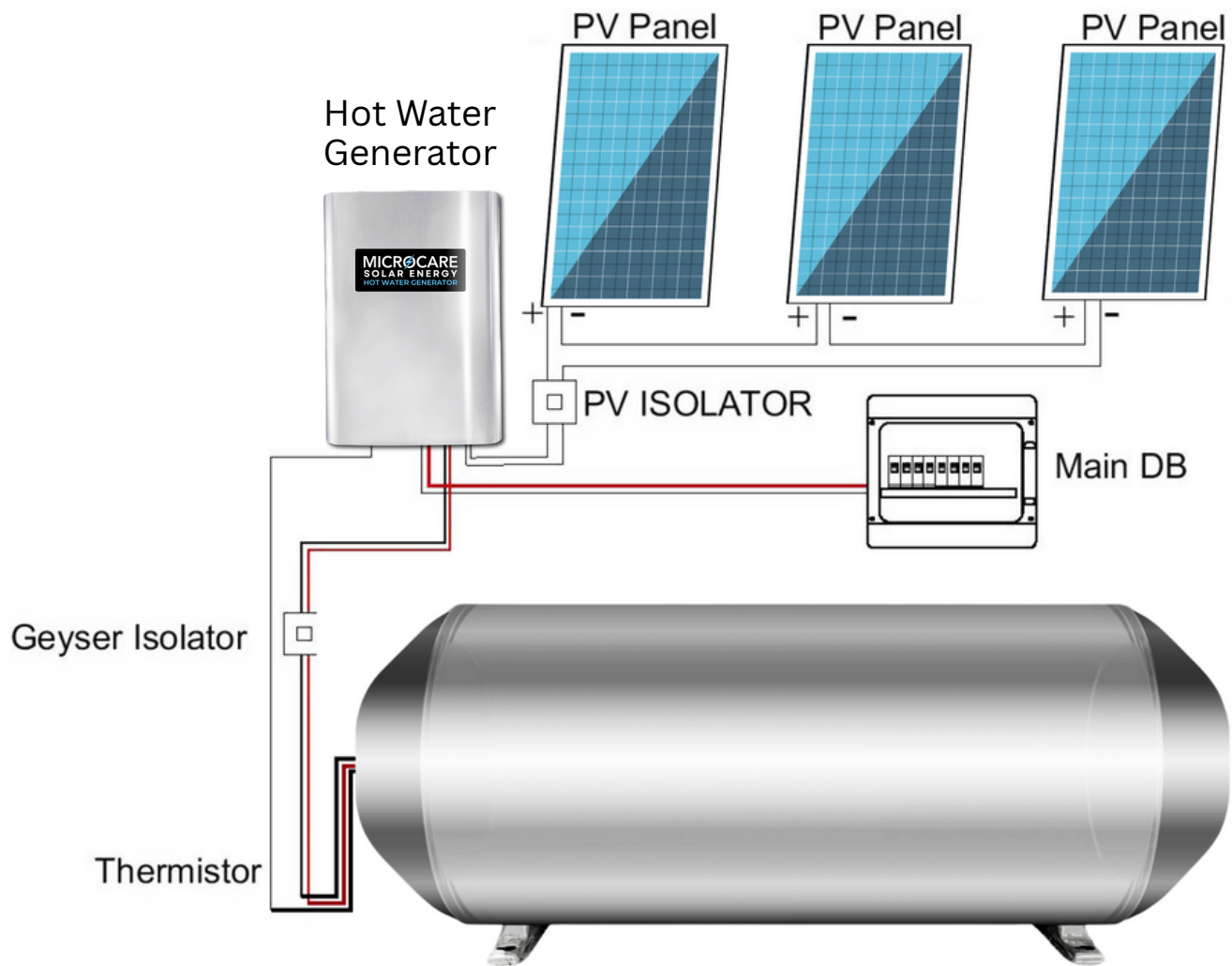
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PRODUCT SPECIFICATIONS

AC Element Size (kW)	2kW	3kW	4kW
Min Input Solar Panel Voltage	185Voc	140Voc	130Voc
Recommended Solar Panel Voltage	230 - 275Voc	185 - 230Voc	140 - 210Voc
Max Input Solar Panel Voltage	275Voc		
Max Input Solar Panel Power	2600W		
Min Input Solar Panel Power	900W (0.9kW)		
Rated AC Input Grid Amps	20A		
Rated AC Input Voltage	230V AC		
Dimensions (w x l x d)	22cm x 30cm x 10cm		
Weight	1.4kg		
Warranty	24 months		



Connection diagram of a typical Microcare Solar Geyser installation

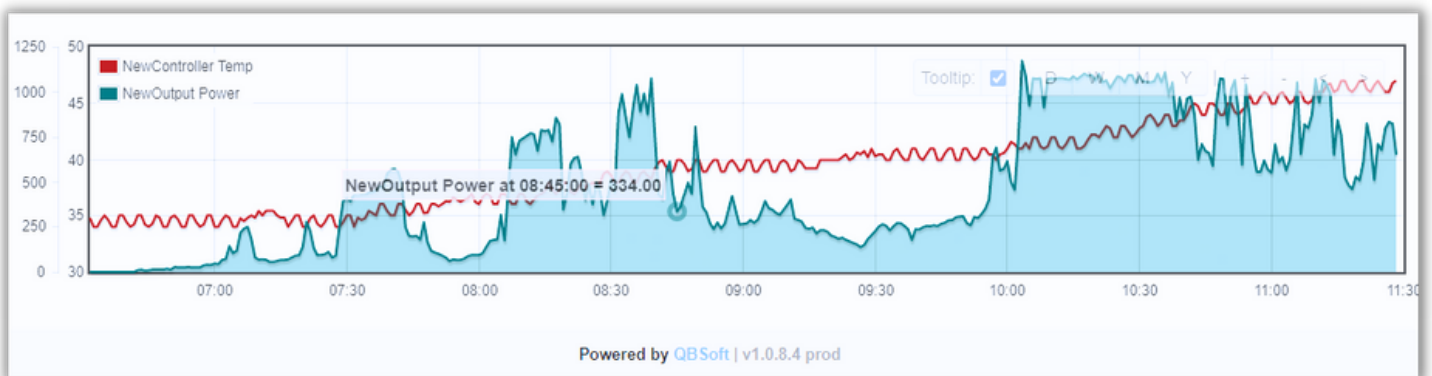


PRODUCT SPECIFICATIONS

Suitable AC Elements	2kW, 3kW or 4kW
Max Input Solar Panel Voltage	275Voc
Min Input Solar Panel Voltage (Recommended)	2kW - 185Voc, 3 & 4kW - 139Voc
Max Input Solar Panel Power	2000W (2kW)
Min Input Solar Panel Power	900W (0.9kW)
Rated AC Input Grid Amps	20A
Rated AC Input Voltage	230V AC
Dimensions (w x l x d)	22cm x 30cm x 10cm
Weight	1.4kg
Warranty	24 months



Data showing the Microcare solution heating up the water during inclement weather



Microcare Solar Geyser Controller installations



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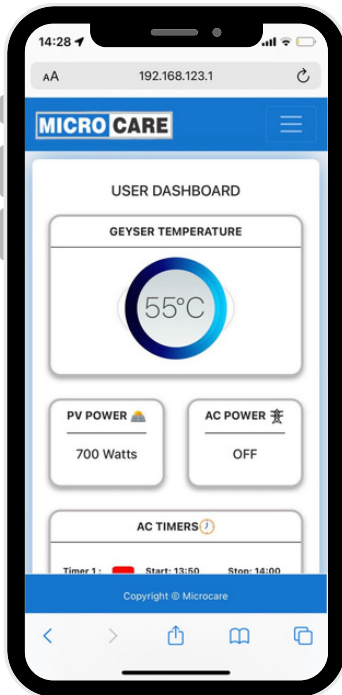


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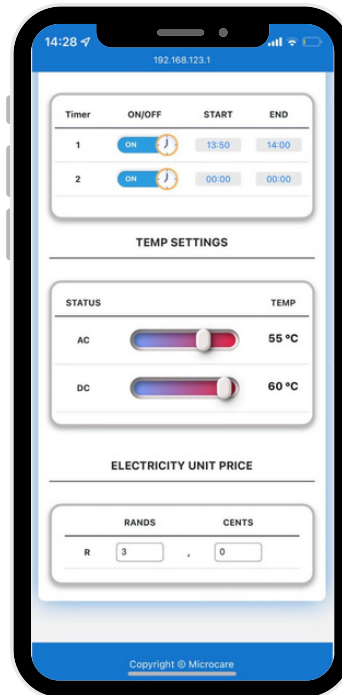


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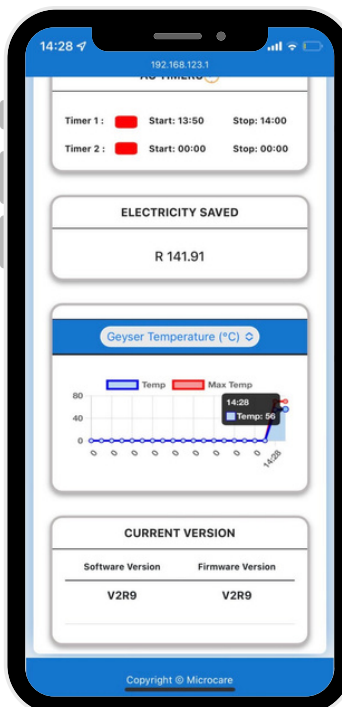
HOT WATER GENERATOR WEB APPLICATION



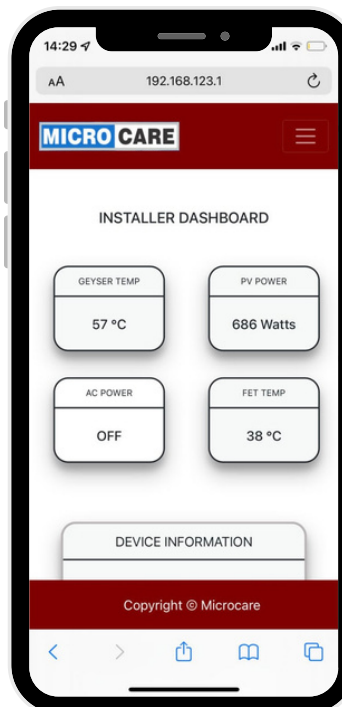
A user dashboard indicates Geyser Temperature, Solar or Grid Power & Timers.



Users can adjust Timers & Temperatures on the Settings page.



Users can view temperature history and Financial savings.



Installers have access for finer set-up & troubleshooting.