MICROCARE
SOLAR ENERGY

SOLAR GEYSER SOLUTION

Designed Developed Manufactured in South Africa

The Microcare PV Geyser Controller (aka Kushushu) 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 30%
- 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

The Microcare Hot Water Generator (aka Kushushu) 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.

Its 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 Hot Water Generator 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:

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- Fit to an existing geyser with no plumbing required
- Retrofits to any 2kW, 3kW or 4kW element
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- Wi-Fi App for set-up & daily operation
- Low heat dissipation
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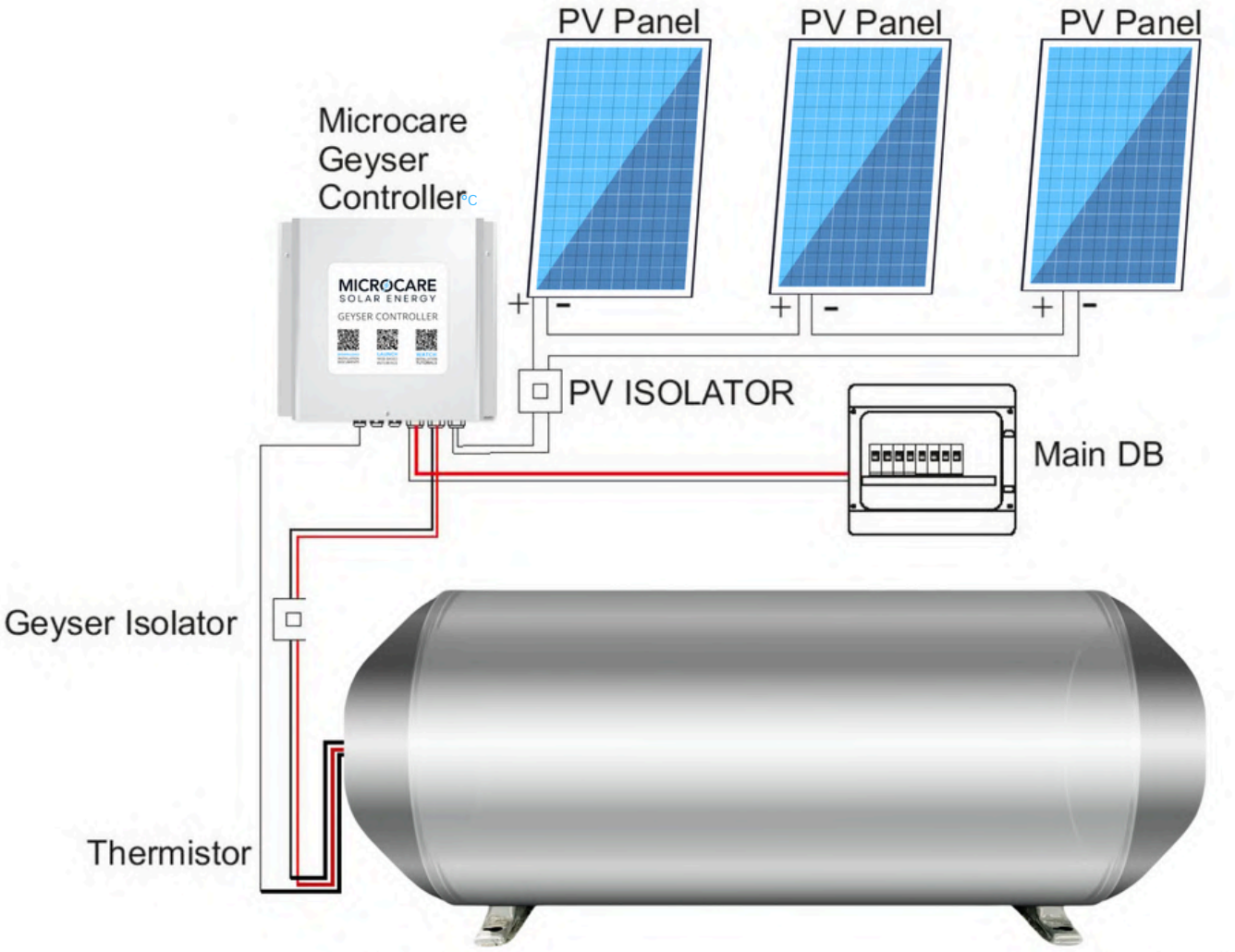
PRODUCT SPECIFICATIONS	
Suitable AC Elements	2kW, 3kW or 4kW
Max Input Solar Panel Voltage	275Voc
Min Input Solar Panel Voltage (Recommended)	2kW - 185Voc, 3 & 4kW - 139Voc
Max Input Solar Panel Power	2000W (2kW)
Min Input Solar Panel Power	900W (0.9kW)
Rated AC Input Grid Amps	20A
Rated AC Input Voltage	230V AC
Dimensions (l x w x d)	26 x 25 x 4cm
Weight	1.4kg
Warranty	24 months

Connection diagram of a typical Microcare Solar Geyser installation



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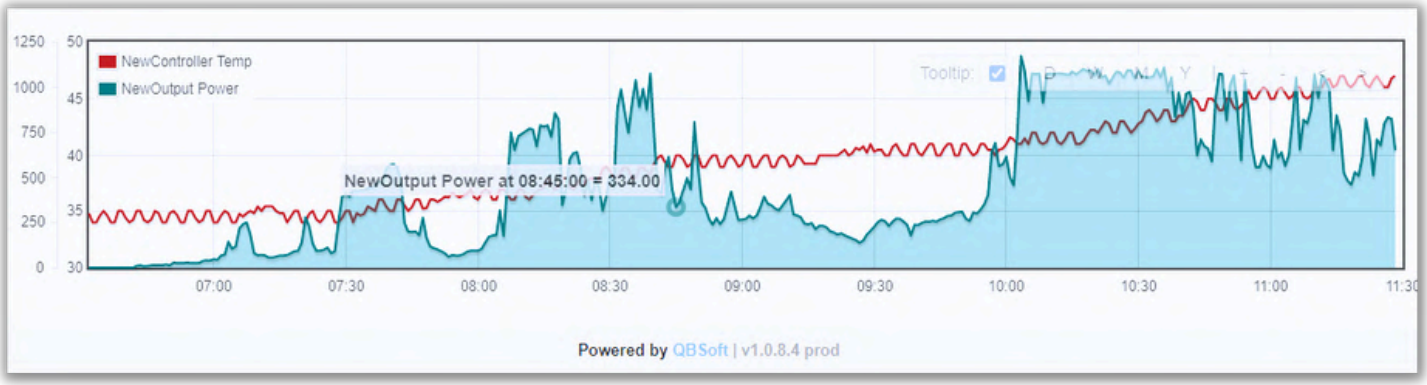
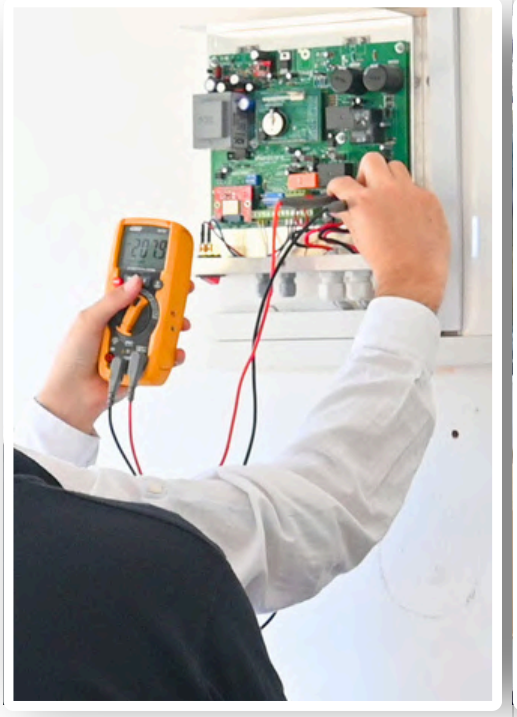
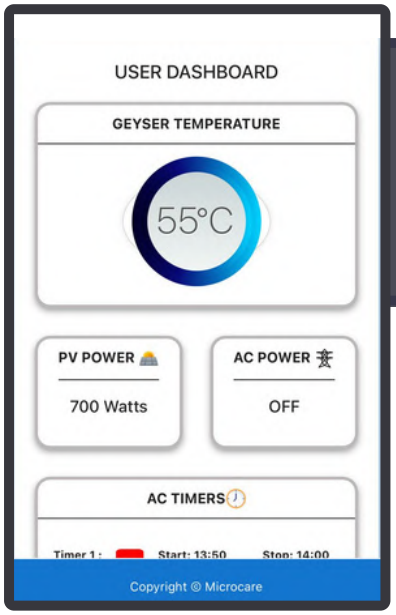
Data showing the Microcare solution heating up the water during inclement weather



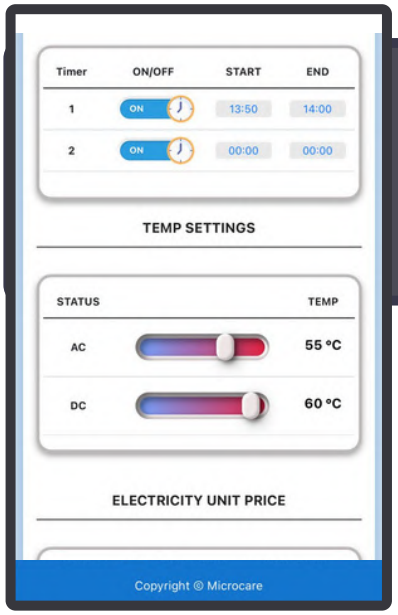
Microcare Solar Geyser Controller installations



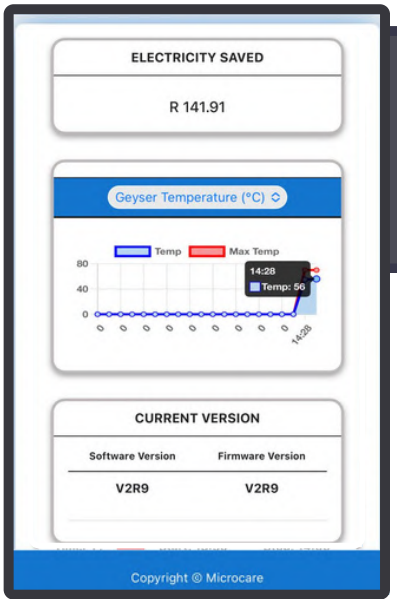
Microcare Solar Geyser Controller
Web Application



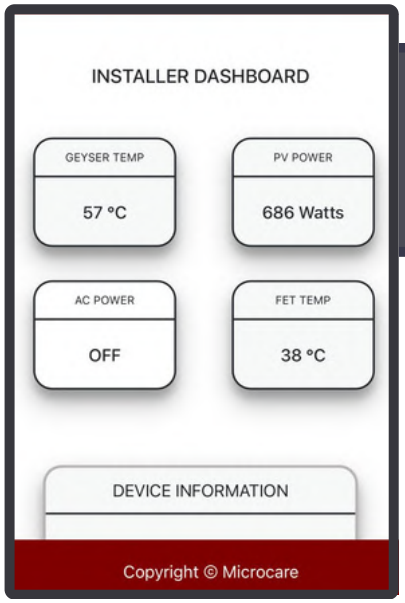
A user dashboard indicates Geyser Temperature, Solar or Grid Power & Timers.



Users can adjust Timers & Temperatures on the Settings page.



Users can view temperature history and Financial savings.



Installers have access for finer set-up & trouble-shooting.

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