

SGCU-xxxV[®]

SOLAR GEYSER SGU CONVERTOR UNIT



- Easy to install
- Use standard electric geyser installation
- No plumbing required on existing sites
- High Voltage DC Input
- Efficient Conversion
- Long life design
- HV output follows PV Power under MPPT control
- Any size 230V electric element can be used 500W to 3kW. 4kW on request.

Another product from the Usedasun[®] range.

This solar geyser converter uses a microprocessor to control the PV high voltage power and through an efficient process converts the electric power to drive the geyser element. The conversion process closely follows the PV output, ensuring that the PV panel uses the maximum power that is available at that time from the sun radiance. This process is called Maximum Power Point Tracking (MPPT).

Whilst the amount of energy available at the geyser element is less than if it would be connected to the mains, the aim of this system, is not to heat the water as quickly as possible, as in the case when electricity from the grid is used, but to rather accumulate the available energy from the sun over a 6 hour period and heat up the water in a geyser for use later in the day. This is typically the use that most households experience on a daily basis, in which the usage of the hot water is for use in at the end of the day.

Depending on the size of the geyser, or the typical usage required, the user should select the correct sized unit for the application.

One of the advantages of using the Solar converter, is that an existing electric system can be converted to solar with minimal amount of work. No plumbing required, simply re-routing the electric wires from the geyser to the Solar Geyser Converter.

One could also use the Solar geyser system, as a part of alternative energy system, to reduce the electricity bill, by using the 'Bypass Relay controller'. Either a manual switch, time switch or a day night timer can be used to switch the geyser element to solar during the day, and to grid power at night, or when hot water is required outside the daily usage.

Various models are available to suit your requirements. Other models may be designed if required if not in our range, simply contact the factory for more details.

SGCU-xxxV® Technical specifications
Specifications for heater elements 500W to 3kW

SGCU - 500W

System Input

- PV Input Supply Voltage. 0 - 405V D.C.
- Maximum PV Current at full power. 3.0A D.C.
- Maximum PV Panel Rating 750W
- Standard system PV 2 off 250W HVPV panels
- Increase power maximum addition of 1 off 250W
. HVPV - total of 750W
- Connector box. 3 input - CCHV -3In

SGCU - 1000W

System Input

- PV Input Supply Voltage. 0 - 405V D.C.
- Maximum PV Current at full power. 6.0A D.C.
- Maximum PV Panel Rating 1250W
- Standard system PV 4 off 250W HVPV panels
- Increase power maximum addition of 1 off 250W
. HVPV - total of 1250W
- Connector box. 5 input - CCHV -5In

SGCU - 2000W

System Input

- PV Input Supply Voltage. 0 - 405V D.C.
- Maximum PV Current at full power. 12.0A D.C.
- Maximum PV Panel Rating 2250W
- Standard system PV 2 off 250W HVPV panels
- Increase power maximum addition of 1 off 250W
. HVPV - total of 2250W
- Connector box. 9 input - 2 by CCHV -5In

For use with 4kW heater elements please contact factory.

CONTACT DETAILS:

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