

# MPPT Geyser Element Controller

## 4000W PV / AC Heating Power

### Highlights

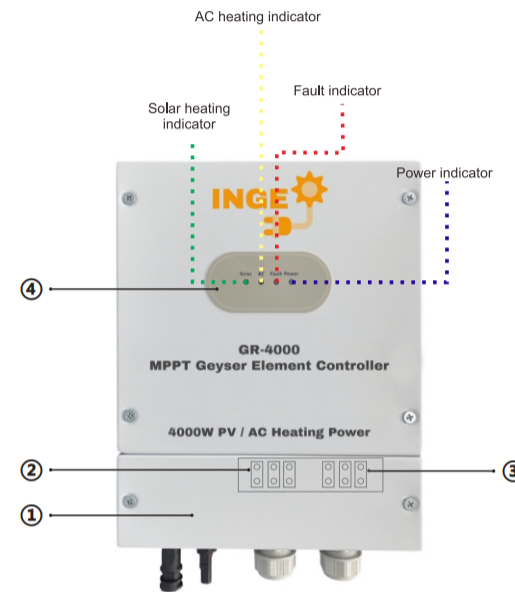
- ▲ Maximum power point tracking technology (MPPT Technology)
- ▲ Advanced DSP control chip, smart control Best solution for multi storey buildings due to cables and not pipes, less heat loss more cost effective
- ▲ Panels could be fitted any distance from geyser
- ▲ **No** Moving parts eg: pumps
- ▲ **No** expensive element up-grade, uses standard elements
- ▲ **No** routine maintenance like some other types
- ▲ **No** expensive inverter needed
- ▲ Only light panels to be installed on roof, **NO HEAVY** tanks
- ▲ Grid back-up option for poor weather conditions
- ▲ Can function with Solar or Grid
- ▲ **IP65** Design, indoor and outdoor applications.
- ▲ **INGE DOES NOT FEEDBACK INTO THE GRID**

### Definition

- The MPPT solar heating controller is designed for connecting to an electric water heater or resistive load.
- Solar heating first. If the solar energy is insufficient, and it will switch to utility smartly.
- IP65 waterproof design, Indoor and Outdoor applications.



### Appearance feature



#### ① -PV input terminal

- + Connect to PV positive (+)
- Connect to PV negative (-)

#### ② -AC OUTPUT terminal interface

- L-----Connect to heating equipment L line
- N-----Connect to heating equipment N line
- PE-----Connect to heating equipment Ground line

#### ③ -AC INPUT terminal interface

- L-----Connect to AC Grid L line
- N-----Connect to AC Grid N line
- PE-----Connect to AC Grid Ground line

#### ④ -LED indicator

- Indicates the current working status of the controller
- Green indicator:** indicates solar heating status
- Yellow indicator:** indicates AC heating status
- Red indicator:** indicates fault status
- Blue indicator:** indicates the controller power

### Technical Data

MODEL	SWHC-4K
Scope of application	The MPPT water heating controller is only suitable for heating resistive load through solar power, and the controller can only be used to connect resistive equipment or AC water heaters with utility heating power within 230V/4000
PHOTOVOLTAIC CHARACTERISTICS	
Solar Max. input power	4000 W
Solar input current	≤ 20 A
Solar input voltage range	160 Vdc ~ 350 Vdc
MPPT operating voltage range	120 Vdc ~ 340 Vdc
MPPT efficiency	>99%
Solar heating output voltage range	0 Vac ~ 260 Vac
Solar heating output current range	≤ 20 A
AC CHARACTERISTICS	
AC heating rated power	4000 W
AC rated voltage	230 Vac
AC working voltage range	180 Vac ~ 260 Vac
AC rated current	≤20A
LOAD REQUIREMENT	
Load	The load should not be higher than
MACHINE CHARACTERISTICS	
Machine dimensions	255*201*95 mm
Package dimensions	363*272*170 mm
Net weight	3 KG
Gross weight	3.6 KG
Ingress Protection	IP65

Product specifications are subject to change without further notice.



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