

MPPT Geyser Element Controller

3000W PV / AC Heating Power **GR-3000W**

Highlights

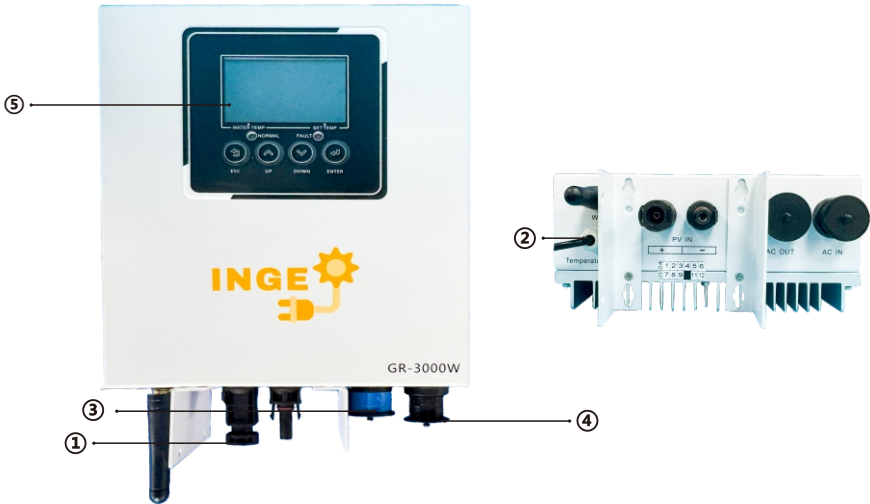
- ▲ Maximum power point tracking technology (MPPT Technology)
- ▲ Advanced DSP control chip, smart control Best solution for multi storey buidings due to cables and not pipes, less heat loss more cost effective
- ▲ Panels could be fitted any distance from geyser
- ▲ **No** Moving parts eg: pumps
- ▲ **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.
- ▲ **Manual Grid Heating Switch**
- ▲ **Timing heating Setting**
- ▲ **Wifi monitoring**
- ▲ **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 PV positive (+)
- Connect to PV negative (-)
- ②---Temperature detection terminal
- ③---AC OUTPUT terminal interface
L-----Connected to water equipment L line
N-----Connect water equipment N line
PE-----Ground wire for water equipment
- ④---AC INPUT terminal interface
L-----Connected to AC grid L line
N-----Connect to AC grid N line
PE----Connect to AC Grid Ground line
- ⑤---LCD and LED operator panel
LCD display: Displays the working status of the controller
LED Green indicator: indicates Normal status
LED Red indicator: indicates fault status
ESC button: Cancel/Return
UP button: Switch to the previous mode
DOWN button: Switch to the next mode
ENTER button: Confirm
- ⑥---WIFI

Technical Data

MODEL	GR-3000W
Scope of application	controller is only suitable for heating resistance heating components through solar power, and the controller load can only be used to connect resistance equipment or AC heaters, heating power within 230V/4000 watts.
Photovoltaic characteristics	
Solar Max. input power	3000W
Solar input current	≤15A
Solar input voltage range	110Vdc ~ 300Vdc
MPPT operating voltage range	90Vdc ~ 290Vdc
MPPT efficiency	>99%
Solar heating output current range	≤15A
AC characteristics	
AC heating rated power (bypass)	4000W
AC rated voltage	230Vac
AC working voltage range	180Vac ~ 260Vac
AC rated current	≤20A
Load requirement	
Load	The load should not be higher than 230V/4000W, and the resistance value isn't less than 13 ohms
Machine characteristics	
Machine dimensions	258*190*84.5mm
Package dimensions	305*244*162mm
Net weight	2.75Kg
Gross weight	3.1Kg
Ingress Protection	IP65

Product specifications are subject to change without further notice.



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