



WattMate Series


# Hot water is civilization


An eco-smart heating regulator — designed to maximize the self-consumption of solar to heat water.

Single Phase	0~3.68kW auto-follow
Three Phase	0~9kW auto-follow

 EMS Mode/ Smart Meter Mode/ Inverter Mode

 Intelligent O&M with self-learning

 Up to almost 100% energy self-consumption

 24h Real-Time heating data insights

 24/7 after-sales service



## Born to heat water

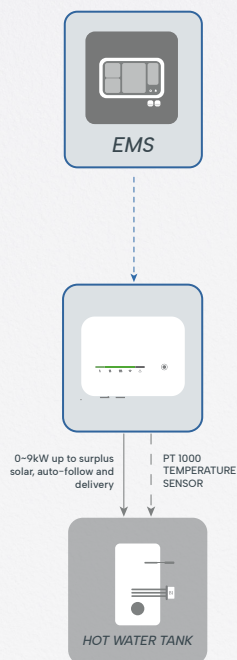
Capture every drop of solar

Enhancing self-consumption and minimizing costs: the Wattmate heating driver offers a standalone solution with minimal impact on both expense and installation complexity. This innovative system harnesses photovoltaic energy to efficiently produce hot water. By automatically routing surplus solar power to an electric water heater equipped with a storage tank, users can immediately enjoy cost savings and, in certain cases, even eliminate their reliance on grid power for an entire year. The Wattmate heating driver is universally compatible, operating seamlessly alongside existing inverters and monitoring systems.

## Cater to versatile scenarios

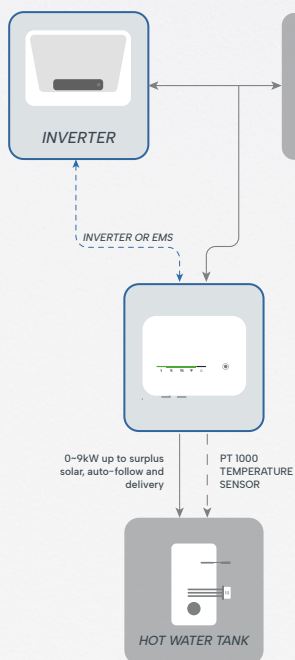
Strong compatibility with multi-system integration

### EMS Mode



Thanks to standard Modbus RTU/TCP-IP protocols integrated, Wattmate can be seamlessly integrated by any external control devices.

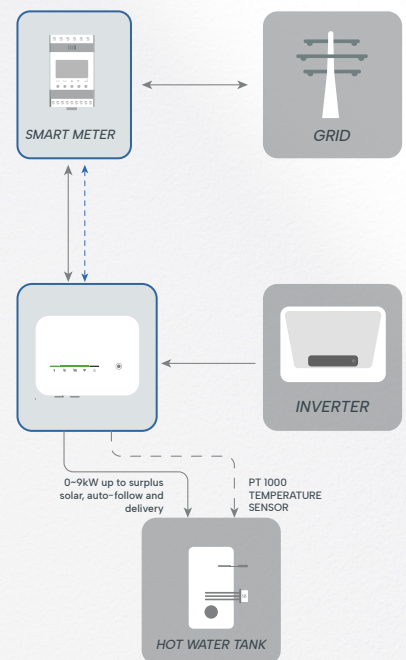
### Inverter Mode



Set up direct communication to inverter via Modbus protocol, Wattmate can always follow real-time PV generation and deliver surplus solar to water heating automatically.

\*Please disable "0-injection mode" on inverter to allow surplus solar could be captured by Wattmate .

### Smart Meter Mode



Measuring available surplus solar by means of WattMate smart meter installed at grid side, the WattMate minimizes the power demand of the electric element in the water heater / hot water storage tank, consequently avoiding the need to draw electricity from the grid, plug and play.



 **WattDesk** supported



## Remote O&M makes you in a breeze

Cloud-based system Monitoring from any time & anywhere

Whether you use a smartphone or a computer, WattMate always provides real-time running data about your smart home system, including heating elements. You can heat water on a personal set schedule, such as adjusting the desired heating period, water temperature, or running mode, checking the running status, and remote firmware updates anytime, anywhere.

## ECO Smart Mode is the mastermind behind it



Stunning self-learning algorithm ensures precise preheating times

If low or no PV production during winter period, WattMate can also bypass grid power to heating water at assigned time and temperature with also assigned grid power. The self-learning aspect enables the heating control to keep continual optimization over time based on historical data and your habits, no late, no earlier, ultimately enhancing sustainability and your experience.





# WattMate

Smart heating partner

	WM-3.6KW-IP	WM-9KW-3P
<b>AC Input</b>		
Voltage	L/N/PE; 230V	3L/N/PE; 220/380V, 230/400V, 240/415V
Frequency	50Hz/60Hz	50Hz/60Hz
Current	16A	13A/3*13A
AC Detection	Yes	Yes
<b>Heating Output</b>		
Max. heating power	0~3.6kW auto-adjust upon PV production	9kW (L1:0~3kW adjustable, L2/L3:3kW fixed)
Frequency	50Hz/60Hz	50Hz/60Hz
AC max. output current	16A	13A/3*13A
Output voltage	230V AC	230V/ 3*230V AC
THDi	< 3%	< 3%
<b>General</b>		
Type of power regulation	Pulse width modulation(PWM)	
Self-consumption	< 10w standby	
Communication	ModBus RTU, ModBus TCP/IP, WiFi/LAN, Web Portal, APP	
Dimensions (height x width x depth)/Weight	258*338*90(mm)/ 4kg	
Protection class	IP65	
Installation	Wall Mounted	
Ambient temperature range	0~+55°C	
Permitted humidity	0-99%, non-condensing	
Certificates and compliance with standards	CE, EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 300 328	

- Only resistance loading is approval.
- AC input and DC input cannot work at the same time, solar self-consumption is always high priority, while grid power working as backup upon demand.
- 1\*PT-1000 temperature sensor is included as standard accessory, plug and play.
- WattMate reserves the right to modify the technical datasheet and appearance of the product in the catalogue without prior advice to the users.
- WattMate is a Wattsonic company.