

## PHOTOVOLTAIC WATER HEATING

KERBEROS Lite is an **off-grid** system used for **economical water heating**. It takes full advantage of photovoltaic storage heating. It is designed for countries with constant **high solar irradiance**.

### BENEFITS

- Off-grid system
- Suitable for any type of hot water tank
- Fully autonomous system
- No overheating
- Easy and cost-efficient installation
- Low roof load
- High efficiency
- Simple operation
- Designed and produced in the Czech Republic
- Even more savings thanks to innovative technology
- Alternative grid heating with our additional dual heating element

### WHERE TO USE KERBEROS Lite

- Family houses
- Apartment buildings
- Holiday homes
- Commercial buildings
- Residential properties
- Wherever hot water is needed



### Main characteristics

- Suitable for water tank of 100 - 300 litres
- Typical setup - 1,5 - 2,5 kWp
- Power of heating element 1,5 - 2,5 kW
- Thermostat 40 - 80°C (setting by 5°C)
- Alternative grid heating

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## Technical data

### Electric data – photovoltaic

Input open circuit voltage (limits)	140 - 340 VDC
Input current	10 A
Recommended power of PV array*	1,5 - 2,5 kWp

\*Maximum input voltage limits must be strictly kept at any solar irradiance and temperature.

### Electric data – electricity mains

Grid input	NO
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### Heating element

Nominal voltage	230 VAC
Recommended power of heating element	1,5 - 2,5 kW

### Thermal regulators

Setting range	10 - 80°C
Step of temperature setting	5°C
Thermal fuse	YES - electronic

### Water tank

Volume	100 - 300 litres
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### Working conditions

Operating temperature	+5 to +40°C
Storage temperature	-10 to +50°C
Operating relative humidity	Max 75 % non condensing
Storage relative humidity	Max 90 % non condensing
Environment dustiness	Dust particles volume max 0,75 mg/m <sup>3</sup>
Chemical effects	Non aggressive

### Construction parameters

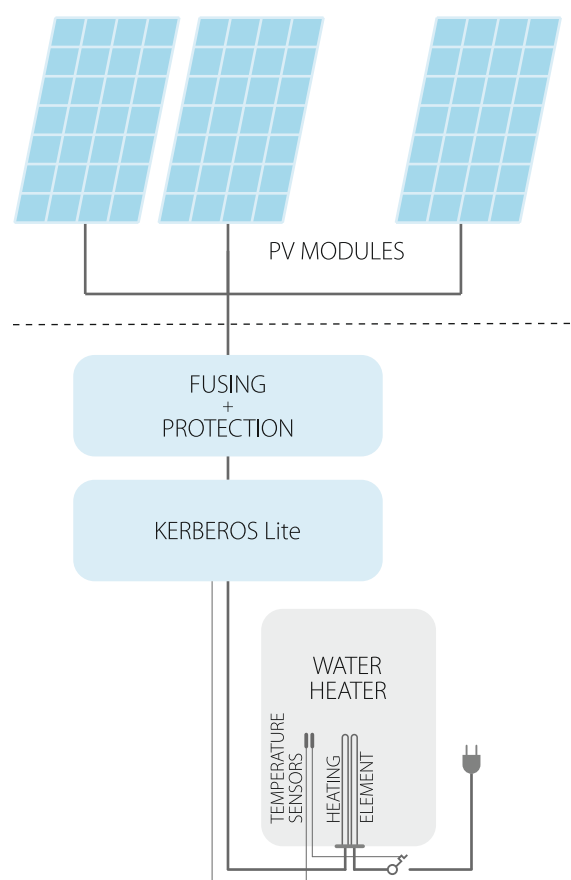
Dimensions	270 x 240 x 60 mm
Weight	2 600 g
Ingress protection	IP 20

### AC / DC heating element (optional accessory)

Two identical heating rods with resistivity	27 Ω
Power of AC heating element	2000 W / 230 V
Brass head with thread	G 6/4



### Schematic



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