

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)	160 - 265 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 ³
Chemical effects	Non aggressive

Construction parameters

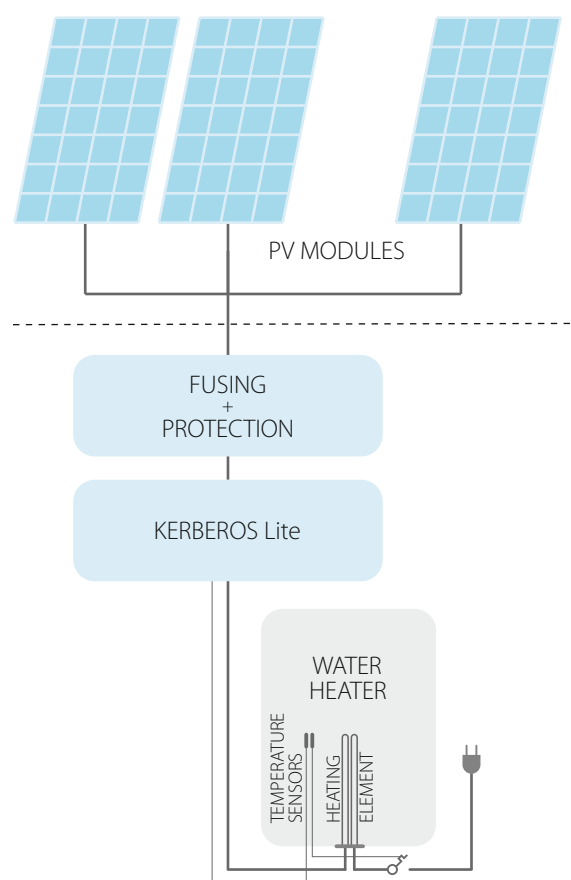
Dimensions	270 x 240 x 60 mm
Weight	2 600 g
Ingress protection	IP 20

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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UNITES Systems a.s.
Kpt. Macha 1372
Valašské Meziříčí
Czech Republic

Tel.: +420 727 899 441
E-mail: sales@solar-kerberos.cz
www.solar-kerberos.com
www.unites-systems.com

Distributor: