

PHOTOVOLTAIC WATER HEATING

KERBEROS Lite is an **off-grid** system used for **economical water heating**. It takes advantages of the photovoltaic storage heating. It is designed for countries with constantly **high sun irradiation**.

BENEFITS

- Fully autonomous system
- Suitable for any type of hot water tank
- Off grid
- No overheating
- Easy and cost-efficient installation
- Low roof load
- High efficiency
- Simple operating
- Designed and made in Czech Republic
- Even more savings thanks to innovative technology

WHERE TO USE KERBEROS Lite

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



Main properties

- Suitable for water tank 100 - 300 litres
- Typical wiring 4 ~ 8 x 260Wp PV modules
- Power of heating element 1,5 - 2,5kW
- Thermostat 40 - 80°C (step 5°C)
- Grid input NO

Innovative energy
saving solutions



Technical data

Electric data – photovoltaic

Input open circuit voltage (limits)	160 - 265 VDC
Input current	10 A
Recommended wiring*	4 ~ 8 x 260 Wp

*Different number of PV modules and different module power than recommended are feasible but maximum input voltage limit must be strictly kept at any solar irradiation and temperature.

Electric data – mains electricity

Grid input	NO
------------	----

Heating element

Nominal voltage	230 VAC
Power	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

Hot water tank

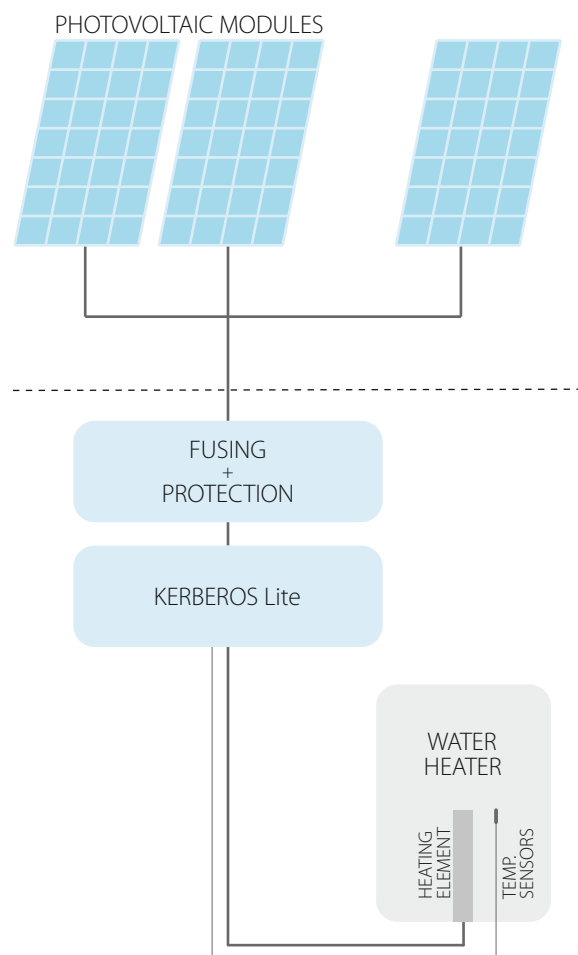
Capacity	100 - 300 litres
----------	------------------

Working conditions

Operating temperature	+5 to +40°C
Storage temperature	-10 to +50°C
Operating rel. 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



Innovative energy saving solutions

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

Tel.: +420 571 757 230
E-mail: info@unites.cz
www.unites-systems.com
www.solar-kerberos.com

Distributor: