

PHOTOVOLTAIC WATER HEATING

The SOLAR KERBEROS system is used for economical water heating. It takes full advantage of the **photovoltaic storage heating** and top-level technology of **maximum power point tracking (MPPT)**.

The SOLAR KERBEROS system provides **maximum use** of energy generated by photovoltaic modules and **minimizes consumption** of mains electricity through the smart water heating control. The high efficiency is achieved by utilising a maximum power point tracking DC/DC converter. Photovoltaic water heating by SOLAR KERBEROS nevertheless brings **many other benefits**.

BENEFITS

- High savings through modern technology
- High efficiency
- Suitable for any type of hot water tank
- Low roof load
- The cheapest storage of energy
- Efficient operation even during winter
- Easy and cost-efficient installation
- Fully autonomous system (even during a power outage)
- Simple adjustable timer for heating
- Efficient utilization of overflows
- Touch screen
- Intuitive operating
- Power supply backup for electrical devices
- Consumption and production monitoring
- Developed and produced in the Czech Republic
- Patented technology
- Optional GSM based remote monitoring



WHERE TO USE

- Residential properties
- Apartment buildings
- Holiday homes
- Commercial buildings
- Industry

Innovative energy
saving solutions



Technical data

Electric data - photovoltaic	315.B	320.B, 320.H
Input open circuit voltage (limits)	185 - 280 VDC	200 - 340 VDC
MPP tracking range	120 - 260 VDC	140 - 310 VDC
Maximum utilizable current	10 A	10 A
Maximum efficiency	99 %	99 %
Typical installed power	~2000 Wp	~2500 Wp

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

Electric data - electricity mains		
Input voltage	230 VAC / 50 Hz	230 VAC / 50 Hz
Maximum output current	13 A	13 A

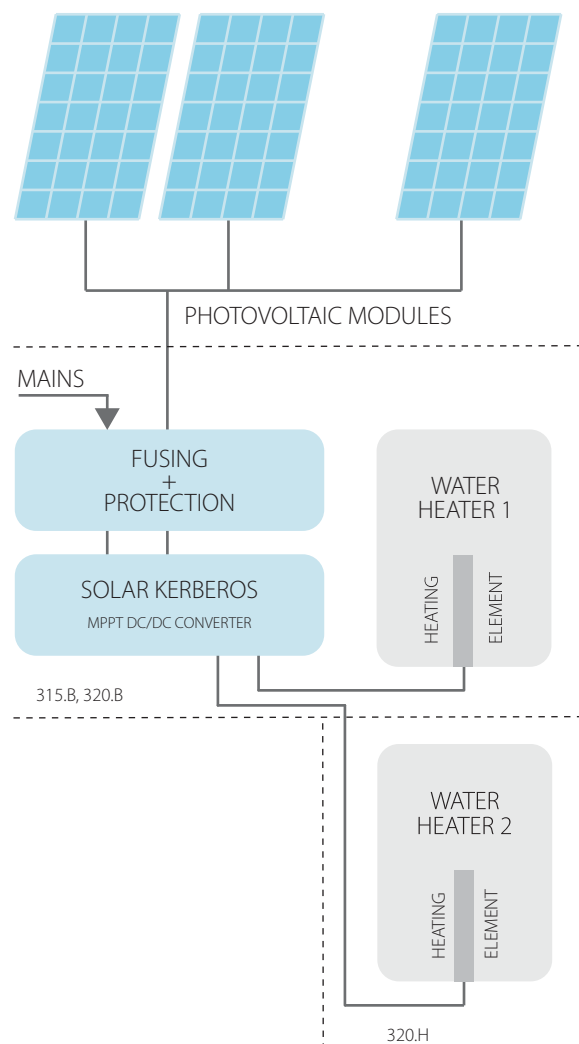
Heating element		
Recommended power of heating element	2 - 2,5 kW	2 - 2,5 kW

Secondary heating element (320.H)		
Recommended power of heating element	2 - 2,5 kW	2 - 2,5 kW

Thermal regulators		
Setting range		10 - 80°C
Thermal fuse		Yes - electronic

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

Construction parameters		
Dimensions		395x322x105 mm
Weight		6 100 g
Ingress protection		IP 20



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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: