SOLAR **KERBEROS**

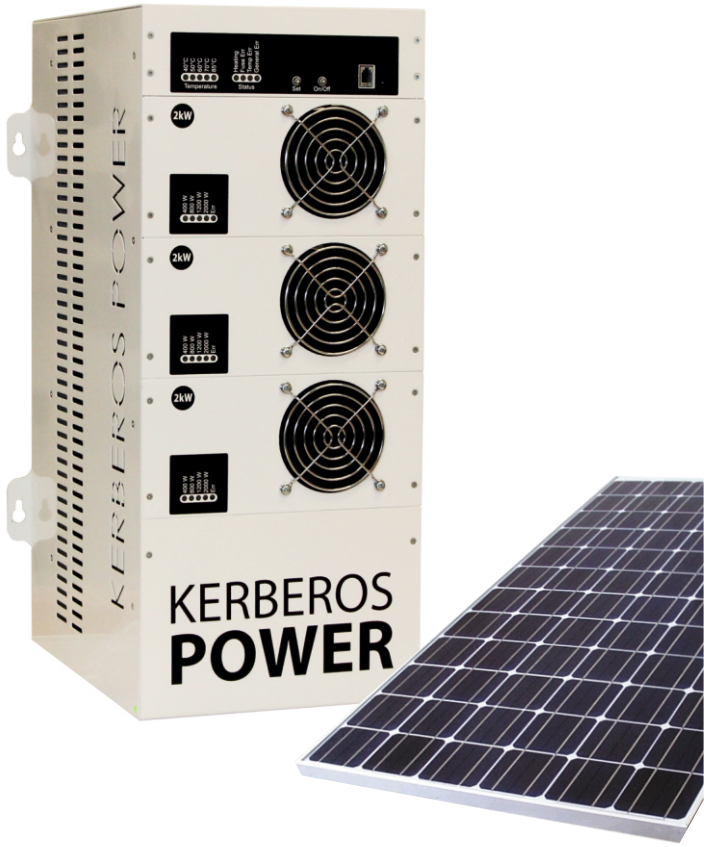
KERBEROS **POWER**

6000.B

PHOTOVOLTAIC WATER HEATING

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

KERBEROS POWER is a **high-performance** modular photovoltaic water heating system. It is designed for ~8 kWp of installed photovoltaic power.
It operates with **standard heating elements** with an output of 2 - 2.5 kW for each of maximum 3 modules.
The water is heated **solely by solar energy**, the grid is being used only to supply control and communication modules. The power section operates in **off-grid mode**, the photovoltaic section is **isolated from the grid.**



BENEFITS

- Even more savings due to innovative technology
- High efficiency
- Suitable for any type of hot water tank
- Low roof load
- Efficient operation even during winter
- Easy and cost-efficient installation
- Fully autonomous system (even during power outage)
- Self-diagnostics
- Developed and produced in Czech Republic
- Patented technology
- Optional GSM based remote monitoring

APPLICATION AREAS

- Residential properties
- Sports facilities
- Wellness centers
- Holiday facilities
- Water parks
- Hotels, guest houses
- Restaurants

Innovative **energy saving** solutions

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Technical data

Electric data (one photovoltaic power module)*	
Number of power modules	3 pcs
Input open circuit voltage (limits)	200 - 340 VDC
MPP tracking range	185 - 320 VDC
Maximum utilizable current	10 A
Maximum efficiency	99 %
Typical installed power	~2500 Wp per power module**

* KERBEROS POWER can be equipped with 3 power modules
** Maximum and minimum input voltage limits must be strictly kept at any solar irradiance and temperature.

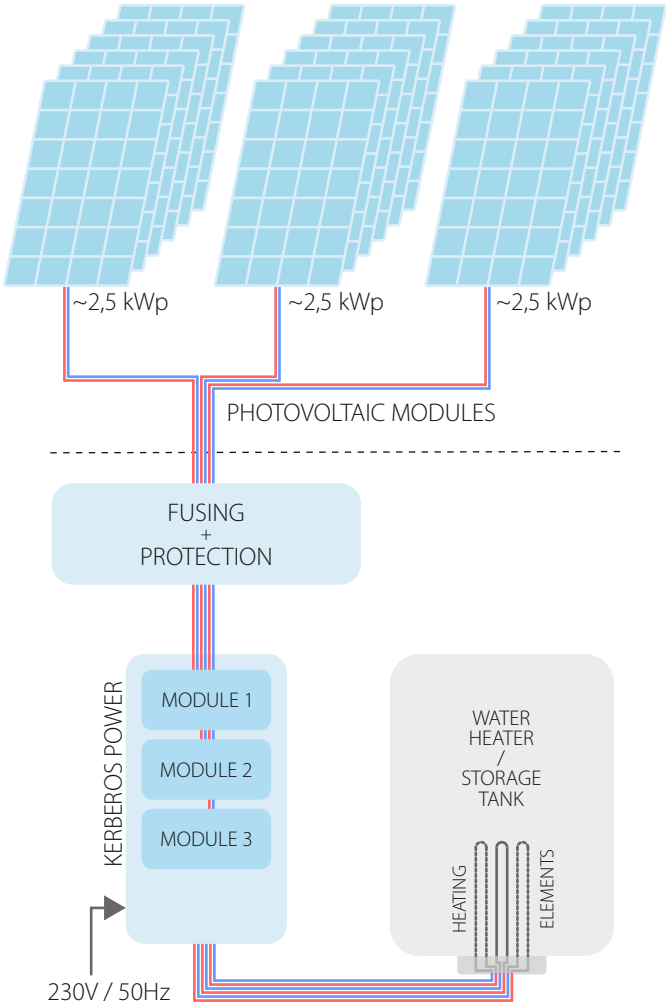
Electric data - electricity mains	
Input voltage	230 VAC 50 Hz
Power consumption	< 5 W

Heating elements	
Number of heating elements or independent sections	3 pcs
The performance of heater / section	2 - 2,5 kW
The possibility of using a three-phase body with separate sections	YES
The possibility of using separate single phase heating elements	YES
The possibility of using a three phase body with a common center	NO

Thermal regulator	
Setting range	10 - 85°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 90 % non condensing
Environmental dustiness	Dust particles volume max 0,75 mg/m^3
Chemical influence	Non aggressive

Construction parameters	
Measurements (height x width x depth)	498 x 210 x 270 mm
Weight	11,2 kg
Ingress protection	IP 20



Distribution:

Innovative **energy saving** solutions

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