



## HYBRID PHOTOVOLTAIC WATER HEATER 30 LITER & 80 LITER

Hot water through the power of the sun

The photovoltaic hybrid water heater offers the ideal solution for a cost-effective and sustainable hot water supply in your home. Hot water represents 20-40% of a home's energy consumption. fothermo water heaters are the easiest way to harvest the sun's energy directly. Once installed, the water heater produces free hot water through the power of the sun. The photovoltaic water heater with its strong performance serves as a replacement for a classic electric water heater. Automatic reheating via the electricity grid in case of bad weather ensures sufficient hot water even on days without sunlight.



### EXTRA LOW VOLTAGE

Due to the low voltage level of less than 50 V, no electrician is required for installation.



### EASY INSTALLATION

The photovoltaic modules are connected by simple plug-and-play connections.



### INDEPENDENCE

Hot water supply independent of the 230V mains supply. Photovoltaic energy can be used even without a 230V connection.



### HOT WATER GUARANTEE

A second 230V heating element with 1 500 W ensures hot water even on days with low sunlight or at night.



### QUALITY

Highest quality and safety standards due to safety temperature limit, magnesium anode, enameled protection and non-return valve.



### INNOVATIVE MPP TRACKER

Integrated MPP tracker that always ensures the maximum yield of the PV modules.

|  | UNIT            | 30 LITER                     | 80 LITER     |
|--|-----------------|------------------------------|--------------|
| <b>PHOTOVOLTAIC WATER HEATER</b>   |                 |                              |              |
| Product model  | –               | PVB-30-AC                    | PVB-80-AC    |
| Volume   | l               | 29                           | 77           |
| Rated pressure   | MPa             | 0,7                          | 0,7          |
| IP class   | –               | 24                           | 24           |
| Gross weight (± 3 %)   | kg              | 15                           | 25           |
| Dimensions (length, width, height)   | cm              | 40 x 40 x 60                 | 47 x 48 x 90 |
| Check and pressure relief valve  | –               | ✓                            | ✓            |
| Cathode protection   | –               | ✓                            | ✓            |
| Emailed protection   | –               | ✓                            | ✓            |
| Insulation   | –               | ✓                            | ✓            |
| Water connection   | –               | G½ (M)                       | G½ (M)       |
| Integrated reverse polarity protection                                       | –               | ✓                            | ✓            |
| Digital display  | –               | ✓                            | ✓            |
| CE - certified   | –               | ✓                            | ✓            |
| <b>PHOTOVOLTAIC INPUT</b>  |                 |                              |              |
| Max. photovoltaic heating power  | W               | 550                          | 550          |
| Max. photovoltaic current consumption  | A               | 15,5                         | 15,5         |
| Max. water temperature   | °C              | 65                           | 65           |
| Integrated MPP tracker   | –               | ✓                            | ✓            |
| Recommended photovoltaic power   | W <sub>p</sub>  | 300 – 600                    | 600 – 1200   |
| Max. connected photovoltaic power  | W <sub>p</sub>  | 2 000                        | 2 000        |
| Max. open circuit voltage  | V <sub>oc</sub> | 50                           | 50           |
| Photovoltaic connector   | –               | MC4                          | MC4          |
| <b>REHEATING VIA 230 V POWER GRID</b>  |                 |                              |              |
| Type of reheating  |                 | directly via the wall socket |              |
| Heating power  | W               | 1 500                        | 1 500        |
| Adjustable water temperature range   | C°              | 10 - 65                      | 10 - 65      |
| <b>WATER HEATING DEPENDING ON THE CURRENTLY AVAILABLE PHOTOVOLTAIC POWER</b> |                 |                              |              |
| 200 W  | °C / h          | 6                            | 2            |
| 400 W  | °C / h          | 12                           | 4,5          |
| 550 W  | °C / h          | 16                           | 6            |
| <b>WATER HEATING VIA 230 V POWER GRID</b>                                    |                 |                              |              |
| 1 500 W  | °C / h          | 43                           | 16           |

IN PARTNERSHIP WITH