



## PHOTOVOLTAIC BOILER

### Hot water through the power of the sun

The 80 litre photovoltaic boiler is the ideal solution for a cost-effective and independent hot water supply in households. Two to four photovoltaic modules are sufficient to supply a 2-person household with hot water. Once installed, the boiler produces free hot water for years.








### HOT WATER FOR ONLY 5 CENTS

Save several hundred euros per year. With hot water from photovoltaic electricity for only about 0.05 €/kWh. In comparison, electricity from the socket costs much more. An average 2-person household consumes about 1000 kWh of electricity to produce hot water with a standard electric boiler. The payback period of the photovoltaic boiler is usually only a few years.

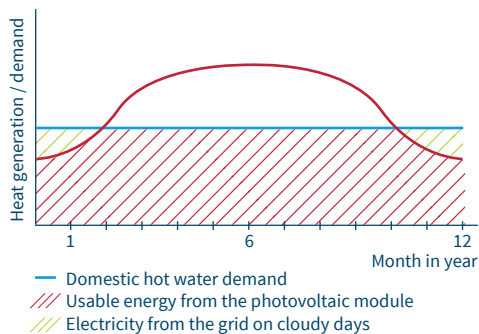


### EASY INSTALLATION

The photovoltaic modules are plugged into the boiler. Optionally an extension cable can be used to bridge longer distances between the between the photovoltaic modules and the boiler. The water connection is made as with any other boiler via a ½ inch standard thread.

|           | <br>CARAVAN | <br>GARDEN SHED | <br>KITCHEN | <br>BATH / SHOWER | <br>1-PERSON<br>HOUSEHOLD | <br>2-PERSON<br>HOUSEHOLD |
|-----------|--|--|--|---|--|--|
| 80 LITRES | —  | ✓  | ✓  | ✓   | ✓  | ✓  |

|   | EINHEIT         | 80 LITER     |
|---|-----------------|--------------|
| <b>PHOTOVOLTAIC BOILER</b>                              |                 |              |
| Product model   | –               | PVB-80       |
| Volume  | l               | 77           |
| Max. heating capacity                                   | W               | 550          |
| Max. power consumption                                  | A               | 15,5         |
| Max. voltage  | V               | 42,4         |
| Energy efficiency class                                 | –               | A+           |
| Nominal pressure  | Bar             | 7            |
| IP protection class                                     | –               | 24           |
| Weight (± 3 %)  | kg              | 25           |
| Max. water temperature                                  | °C              | 65           |
| Adjustable temperature range for optimum reheating      | °C              | 10-65        |
| Integrated MPP tracker                                  | –               | ✓            |
| Integrated reverse polarity protection                  | –               | ✓            |
| Digital display   | –               | ✓            |
| Steel boiler with enamel coating                        | –               | ✓            |
| CE certified  | –               | ✓            |
| Dimensions (length, width, height)                      | cm              | 47 x 48 x 90 |
| Water connection  | –               | G½ (M)       |
| Combined non-return and pressure relief valve           | –               | ✓            |
| <b>PHOTOVOLTAIC CONNECTION</b>                          |                 |              |
| Recommended photovoltaic output                         | W <sub>p</sub>  | 600 – 1200   |
| Max. connectable photovoltaic power                     | W <sub>p</sub>  | 1500         |
| Max. open-circuit voltage                               | V <sub>dc</sub> | 42,4         |
| Photovoltaic connector                                  | –               | MC4          |
| <b>HEATING OF THE WATER AS A DEPENDING ON THE POWER</b> |                 |              |
| 100 W   | °C / h          | 1,1          |
| 240 W   | °C / h          | 2,7          |
| 550 W   | °C / h          | 6,0          |



## HOT WATER EVERY DAY

From 20 °C to 65 °C water temperature in 8 hours. If the hot water from the boiler is mixed with 10 grams of water when showering, up to 180 litres of 34 °C hot water can be used. Rule of thumb: 80 litres of hot water can be used once a day! In good weather from the power of the sun. In bad weather, the boiler can be reheated automatically via a mains unit.\*

\*not included in the scope of delivery.

## ABOUT FOTHERMO

fothermo is the leading manufacturer of high-quality photovoltaic boilers. The development as well as the production of all boilers takes place in Germany. Local and sustainable value creation is particularly important to fothermo.