

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.



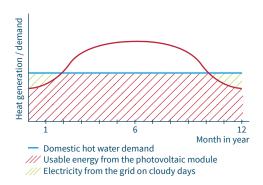
EASY INSTALLATION

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 $\frac{1}{2}$ inch standard thread.

	CARAVAN	GARDEN SHED	KITCHEN	BATH/SHOWER	1-PERSON HOUSEHOLD	2-PERSON HOUSEHOLD
80 LITRES	_	~	~	~	~	~



Product model PVB-80 Volume		EINHEIT	80 LITER
Volume 1	PHOTOVOLTAIC BOILER		
Max. heating capacity 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 %) Max. water temperature Adjustable temperature range for optimum reheating C 65 Adjustable temperature range for optimum reheating C 10-65 Integrated MPP tracker - V Integrated reverse polarity protection - Digital display - CE certified - V Dimensions (length, width, height) C m 47x48x90 Water connection C m 47x48x90 Max. connectable photovoltaic output Max. connectable photovoltaic ower MAX. Power MCA HEATING OF THE WATER AS A DEPENDING ON THE POWER 100W *C/h 1,1 *C/h 2,7	Product model	_	PVB-80
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 %) Max. water temperature °C 65 Adjustable temperature range for optimum reheating °C 10-65 Integrated MPP tracker —	Volume	l	77
Max. voltage V 42,4 Energy efficiency class — A+ Nominal pressure Bar 7 IP protection class — 24 Weight (± 3 %) Max. water temperature ° C 65 Adjustable temperature range for optimum reheating ° C 10-65 Integrated MPP tracker — ✓ Integrated MPP tracker — ✓ Integrated reverse polarity protection — — ✓ Steel boiler with enamel coating — ✓ CE certified — — ✓ Dimensions (length, width, height) Water connection Combined non-return and pressure relief valve PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Max. connectable photovoltaic power Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100W °C/h 1,1 240W	Max. heating capacity	W	550
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 -	Max. power consumption	А	15,5
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 -	Max. voltage	V	42,4
IP protection class - 24 Weight (± 3 %) Max. water temperature % C 65 Adjustable temperature range for optimum reheating % C 10-65 Integrated MPP tracker -	Energy efficiency class	-	A+
Weight (± 3%) Max. water temperature CC 65 Adjustable temperature range for optimum reheating CC 10-65 Integrated MPP tracker Integrated reverse polarity protection Digital display CE certified Dimensions (length, width, height) Water connection Combined non-return and pressure relief valve PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Max. open-circuit voltage Phovolatic connector MCA HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W 240 W CC 65 10-65	Nominal pressure	Bar	7
Max. water temperature Max. water temperature 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) Water connection Combined non-return and pressure relief valve PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Max. connectable photovoltaic power Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W CC 10-65 10-65	IP protection class	-	24
Adjustable temperature range for optimum reheating Adjustable temperature range for optimum reheating Integrated MPP tracker Integrated reverse polarity protection Digital display Steel boiler with enamel coating CE certified CE cert	Weight (± 3%)	kg	25
Integrated MPP tracker Integrated reverse polarity protection Digital display Steel boiler with enamel coating CE certified Dimensions (length, width, height) Water connection Combined non-return and pressure relief valve PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Max. connectable photovoltaic power Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W 240 W CC/h 1,1 240 W	Max. water temperature	°C	65
Integrated reverse polarity protection Digital display Steel boiler with enamel coating CE certified Dimensions (length, width, height) Water connection Gly2 (M) Combined non-return and pressure relief valve PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Max. connectable photovoltaic power Wp 600 – 1200 Max. open-circuit voltage Voc 42.4 Phovolatic connector — MC4 HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W °C/h 1,1 240 W °C/h 2,7	Adjustable temperature range for optimum reheating	°C	10-65
Digital display Steel boiler with enamel coating CE certified Dimensions (length, width, height) Water connection Gl/2 (M) Combined non-return and pressure relief valve PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Way Max. connectable photovoltaic power Way Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W 240 W CC/h 1,1 240 CC/h 2,7	Integrated MPP tracker	-	✓
Steel boiler with enamel coating CE certified Dimensions (length, width, height) Water connection Combined non-return and pressure relief valve PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Max. connectable photovoltaic power Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W 240 W CC /h 1,1 240 W CC /h 2,7	Integrated reverse polarity protection	-	✓
CE certified Dimensions (length, width, height) Water connection Combined non-return and pressure relief valve PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Max. connectable photovoltaic power Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W 240 W CC/h 1,1 240 W CC/h 2,7	Digital display	-	✓
Dimensions (length, width, height) Water connection Combined non-return and pressure relief valve PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Wp 600 − 1200 Max. connectable photovoltaic power Wp 1500 Max. open-circuit voltage Voc 42.4 Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W 240 W °C/h 1,1 240 W	Steel boiler with enamel coating	-	✓
Water connection	CE certified	_	✓
Combined non-return and pressure relief valve PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Max. connectable photovoltaic power Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W °C/h 240 W °C/h 2,7	Dimensions (length, width, height)	cm	47 x 48 x 90
PHOTOVOLTAIC CONNECTION Recommended photovoltaic output Max. connectable photovoltaic power Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W C/h 240 W C/h 27	Water connection	-	G½ (M)
Recommended photovoltaic output Max. connectable photovoltaic power Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W 240 W C/h 247	Combined non-return and pressure relief valve	-	✓
Max. connectable photovoltaic power Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W °C/h 240 W °C/h 2,7	PHOTOVOLTAIC CONNECTION		
Max. open-circuit voltage Phovolatic connector HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W °C/h 240 W °C/h 2,7	Recommended photovoltaic output	Wp	600 – 1200
Phovolatic connector — MC4 HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W °C/h 1,1 240 W °C/h 2,7	Max. connectable photovoltaic power	Wp	1500
HEATING OF THE WATER AS A DEPENDING ON THE POWER 100 W °C/h 240 W °C/h 2,7	Max. open-circuit voltage	V _{DC}	42.4
100 W °C/h 1,1 240 W °C/h 2,7	Phovolatic connector	_	MC4
240 W °C/h 2,7	HEATING OF THE WATER AS A DEPENDING ON THE POWER		
	100 W	°C/h	1,1
550 W °C/h 6,0	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.