



OFFGRID PHOTOVOLTAIC WATER HEATER 10LITER, 30 LITER & 80 LITER

Hot water through the power of the sun

The photovoltaic boiler offers the ideal solution for a cost-effective and sustainable hot water supply in stand-alone systems e.g. garden houses, mountain huts or as drinking water preheating before a heating system. Once installed, the boiler produces free hot water only through the power of the sun. The photovoltaic boiler serves as a replacement for a classic electric boiler. Automatic reheating via the electricity grid ensures sufficient hot water even on days without sunlight.



INNOVATIVE MPP TRACKER

50% higher yield thanks to innovative MPP tracker that always ensures the maximum yield of the PV modules.



HOT WATER GUARANTEE

A 230V heating element with 1.500 W ensures hot water even on days with low sunlight.



INDEPENDENCE

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



PLUG & PLAY

The photovoltaic modules are connected by simple plug-and-play connections. No electrician is needed for the installation.



QUALITY

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



GOOD FEELING

Enjoy the good feeling of a free and 100% environmentally friendly hot shower.

	UNIT	10 LITER	30 LITER	80 LITER
PHOTOVOLTAIC WATER HEATER				
Product model	–	PVB-10	PVB-30	PVB-80
Volume	l	9,5	29	77
Rated pressure	MPa	0,7	0,7	0,7
IP class	–	X1	24	24
Gross weight (± 3%)	kg	7,2	15	25
Dimensions (length, width, height)	cm	28 x 28 x 44	40 x 40 x 60	47 x 48 x 90
Check and pressure relief valve	–	✓	✓	✓
Cathode protection	–	✓	✓	✓
Emailed protection	–	✓	✓	✓
Insulation	–	✓	✓	✓
Energy efficiency class		C	C	C
Water connection	–	G½ (M)	G½ (M)	G½ (M)
Integrated reverse polarity protection	–	✓	✓	✓
Digital display	–	✓	✓	✓
CE - certified	–	✓	✓	✓
PHOTOVOLTAIC INPUT				
Max. photovoltaic heating power	W	550	550	550
Max. photovoltaic current consumption	A	15,5	15,5	15,5
Max. water temperature	°C	65	65	65
Integrated MPP tracker	–	✓	✓	✓
Recommended photovoltaic power	W _p	100 – 300	300 – 600	600 – 1.200
Max. connected photovoltaic power	W _p	2.000	2.000	2.000
Max. open circuit voltage	V _{oc}	42,4	42,4	42,4
Photovoltaic connector	–	MC4	MC4	MC4
REHEATING VIA 230 V POWER GRID				
Type of reheating		Power supply unit(12V, 18V or 24V)		
Heating power	W	60 (12V), 160(18V) or 240(24V)		
Adjustable water temperature range	°C	5 - 65	10 - 65	10 - 65
HEATING VIA RECHARGEABLE BATTERY				
Recommended technology		LFP, lead-acid	LFP, lead-acid	LFP, lead-acid
Voltage level	V	12 or 24	12 or 24	12 or 24
WATER HEATING DEPENDING ON THE CURRENTLY AVAILABLE PHOTOVOLTAIC POWER				
200 W	°C/h	18	6	2
400 W	°C/h	36	12	4,5
550 W	°C/h	50	16	6

NOTE: Only 36-cell and 60/120-cell photovoltaic modules may be connected to the water heater.