

# PV to Heat

## Intelligent Heating with PV Power

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With the AC ELWA 2 and AC-THOR products, Solar-Log GmbH has found a dependable cooperation partner with the my-PV company for heating rods and intelligent loads. my-PV's expertise in heating with solar power perfectly complements Solar-Log's expertise in smart energy.

By combining the Solar-Log™ and the AC ELWA 2 from my-PV, excess PV power can be used to heat domestic hot water or combined storage tanks. The power is linearly controlled by the Solar-Log Base from 0 to 3,500 W depending on the surplus. This combination increases the degree of self-sufficiency, especially in summer and during transitional periods. During this time, fossil fuels can often be completely dispensed with for conventional hot water heating. The minimum temperature of the hot water tank can be defined by configuring the unit. This means that hot water can always be provided regardless of the excess PV power available. The AC ELWA 2 can be conveniently configured via the web interface for the Solar-Log Base.

The AC-THOR is a 0-3 kW infinitely variable control device for hot water, electric heat sources and optional heating.

For example, in combination with the Solar-Log™, the AC-THOR controls the AC ELWA 2 heating rod in accordance with the PV energy and hot water demand. Missing residual energy can be drawn from the public grid. In addition, the AC-THOR can be easily configured at any time with little effort thanks to its touch display.

When the set temperature is reached, the PV power can also be used for other loads.

## Technical Data

## AC ELWA 2

Compatible with the Solar-Log™ device series	Solar-Log Base
Ambient temperature	0°C to 40°C
Heating output	0 – 3,500 W + 16 A switching output 16 A
Minimum/maximum temperature	Configurable
Protection class	IP21
Environment	For indoor use
Operating altitude	Maximum 2,000 m (m above sea level)
Mains connection	3 pole clamp, 2,5 mm <sup>2</sup> 230 V
Rated voltage	230 VAC
Mains frequency	45-65 Hz
Standby power consumption	< 1,5 W
Efficiency	> 99,3 % at nominal power
Cos Phi	0,999 at nominal power
Mains-side THDi	At 50 % power < 3 %; at 100 % power < 3 %
Protection class	1
Circuit protection	Circuit protection adjustable (13 A / 16 A). In the two compatibility modes, the power is limited to 3kW. Instead of „Max. power“, „Fuse protection“ is displayed at this point.
Operating pressure	Max. 10 bar
Connection/interface	Ethernet
Cartridge heater connection	1 ½ Zoll
Width across flats	AF 60 mm. The tightening torque must not exceed 50 Nm.
Display	Color Graphic, Touch Screen 2.83"
Dimensions (WxHxD)	580 x 133 x 117 mm with heating rod
Heating rod length	460 mm (from the sealing surface)
Weight	2 kg
Directives and standards fulfilled	CE standard (EN 55014-1, EN 55014-2, EN 60335-2-21, EN 60730-2-9, EN 61000-3-2, EN 61000-3-3, EN 61000-6-3, EN 62233), TOR D1 (AT), TAEV (AT), TAB(DE)
Warranty	2 years
Artikelnummer	257274

