MYPV

Hot Water & Heating from Photovoltaics

AC ELWA-E

The integrated solution for hot water from PV excess. Also as hybrid storage system with battery.

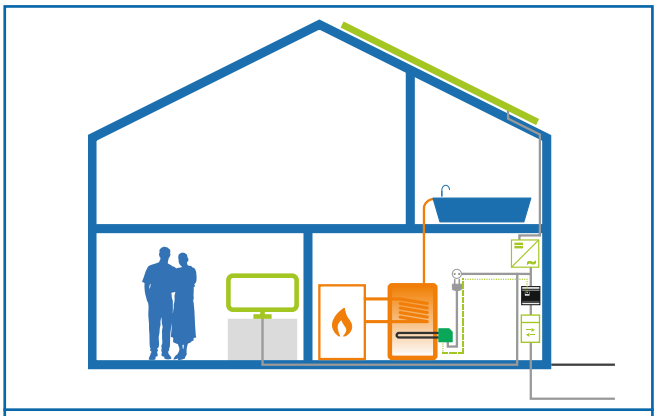
The easiest way to optimize your self-consumption.

- Linear control for maximum energy utilization
- Compatible with my-PV Power Meter
- Flexible control for various inverters, battery systems and Smart-Homes
- Multimode with 6 devices for 3 to 18 kW nominal power
- Also for commercial building applications
- No thyristors, complies with German/Austrian standards
- Automatic hot water boost function
- Communication via home network
- Can be installed in hot water boilers and buffer storage

AC ELWA-E

… with my-PV Power Meter

In combination with my-PV Power Meter, AC ELWA-E uses only excess energy from your photovoltaic system. It can be installed in hot water boilers and buffer storages. Heating power is linearly controlled and so practically no energy is fed into the grid and self-consumption increases markedly. Grid-connected PV systems achieve an average of only 30% self-consumption. In an typical household (5 kWp PV system), self-consumption with the AC ELWA-E can easily be increased up to 75%.



AC ELWA-E with my-PV Power Meter

… with Smart-Home or battery storage

Thanks to it´s flexible control, AC ELWA-E communicates with energy management systems or battery storage units. As an alternative to my-PV Power Meter, surplus information can also be received from these sources.

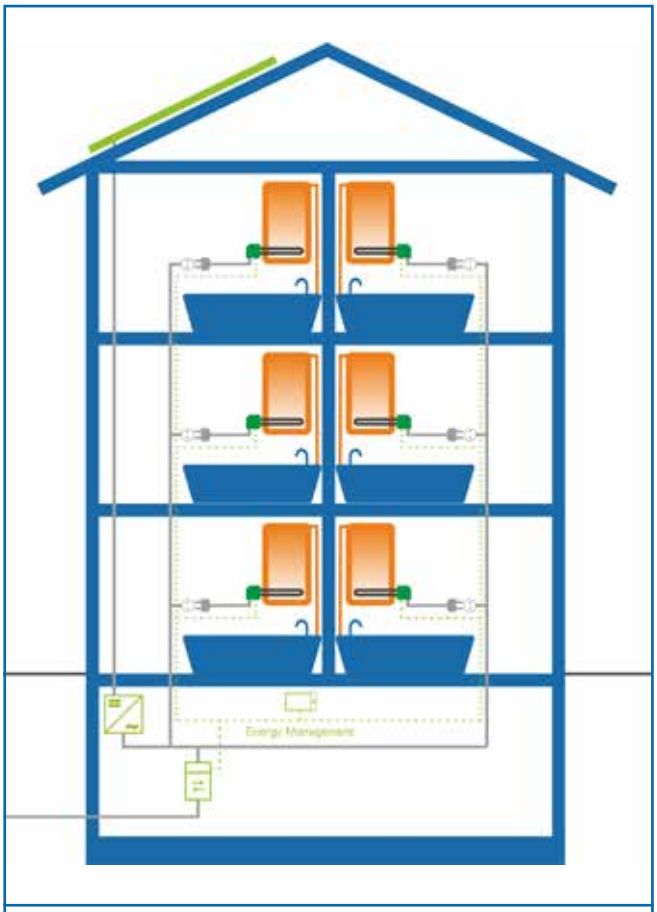
Single-family home

AC ELWA-E with Smart-Home

AC ELWA-E with battery

For compatible battery storage and Smart-Home systems see www.my-pv.com.

Commercial buildings



AC ELWA-E in commercial buildings

Decentralized hot water storage and production avoids distribution ("ring main") losses and fulfills hygienic standards.

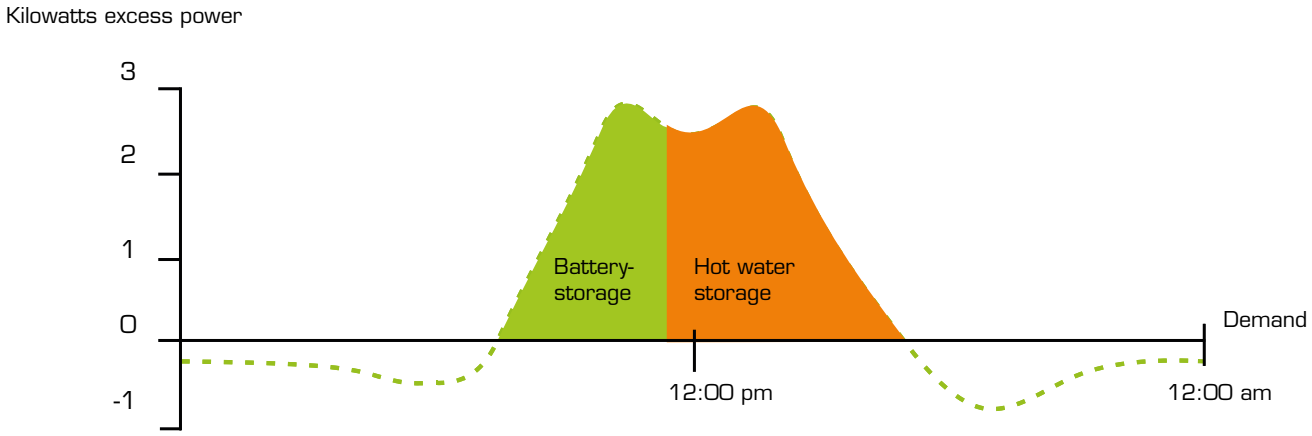
Decentralized AC ELWA-E´s provide high solar coverage ratios.

UNIVERSAL APPLICATION POSSIBILITIES

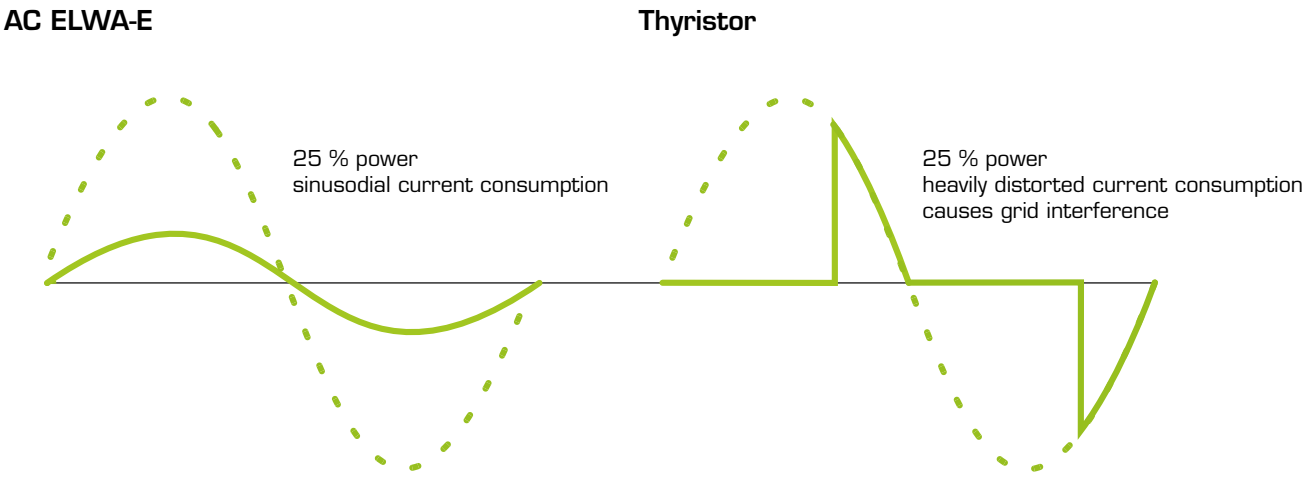
AC ELWA-E is a 3 kW linearly controlled water heating device for grid-connected photovoltaic systems. A lack of residual energy can be imported from the public electricity grid.

Perfect PV-utilization with battery and hot water storage

Charging of the battery storage has priority. Once the battery is fully charged, AC ELWA-E starts using excessive energy for hot water heating. This avoids energy feed-in as much as possible.
Hot water is by far the least expensive storage per kWh. It is a perfect add-on to battery storage systems.



The AC ELWA-E´ s linear power control works, similar to a grid connected inverter, with highfrequency switching power electronics. This minimizes network disturbances, EMC and power-grid conformity is guaranteed in contrast to thyristor controllers.



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TECHNICAL DATA

Power	0-100 % linear, HF-switch mode
Heating power	0-3,000 W
Mains supply	Single-phase, Euro plug, 230 V, 50 Hz
Power cord	3 m
Self-consumption	<1,5 W
Efficiency	>99 % at nominal power
Cos Phi	0,999 at nominal power
Display	3 LED's
Communication	RJ45 Ethernet
Operating temperature range	10 °C to 40 °C
Protection class	IP 21
Dimensions (W x H x D)	130 x 180 x 600 mm with immersion heater
Weight	2 kg
Heating rod length	45 cm
Heating rod thread dimension	1 ½ inch
Certification	CE, TOR D1, TAEV, TAB
Warranty	2 years
Maximum number of units in IP network	Network dependent
Supported protocols	http, modbus TCP, UDP
Compatible systems / smart home controllers	see www.my-pv.com

Subject to change.