

AC ELWA®

PV Excess-Energy Hot Water System



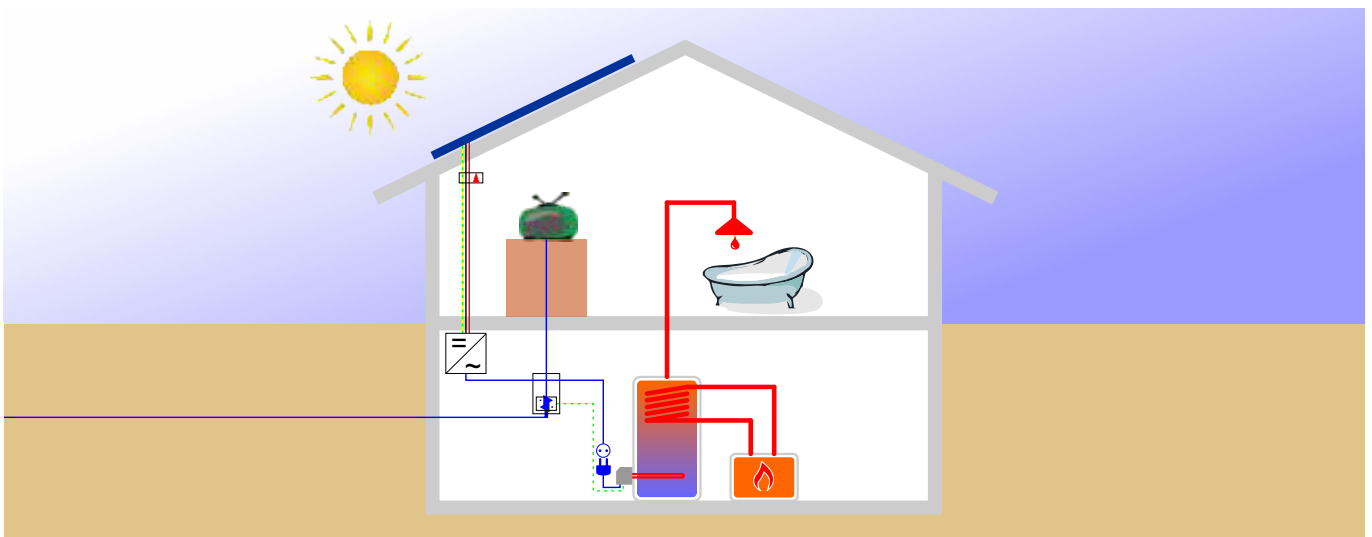
With
Excess Power Control
or compatible with
existing EMS

- Uses PV excess energy for hot water and heating systems
- 3 - 18 kW nominal power for each PV-system
- No thyristor power switches, complies with TAB/TAEV
- 3-phase powermeter included
- Stratification or synchronous charge
- Mains-backup function

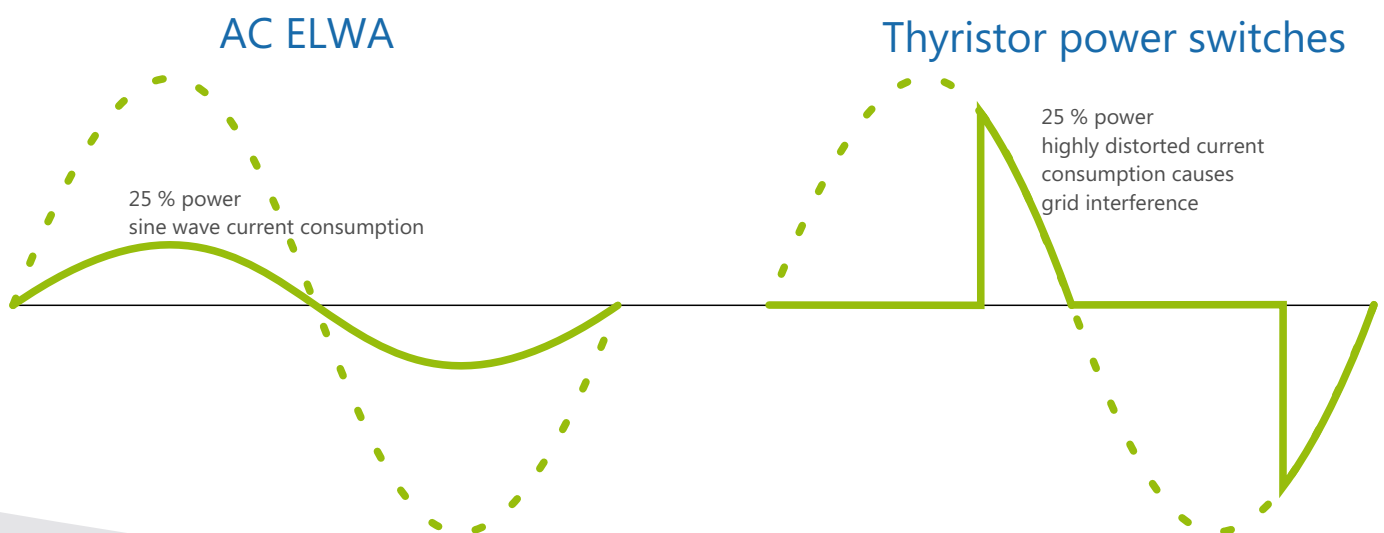
How AC ELWA works

The digital PLA Control together with the AC ELWA minimizes excess power of the grid connected PV-system by using energy for hot water. The PLA is mounted at the meter cabinet, the AC ELWA is mounted to the hot water tank.

The installation of AC ELWA and PLA powermeter is „plug-and-play“. No settings, no complicated programming - just connect and run it!

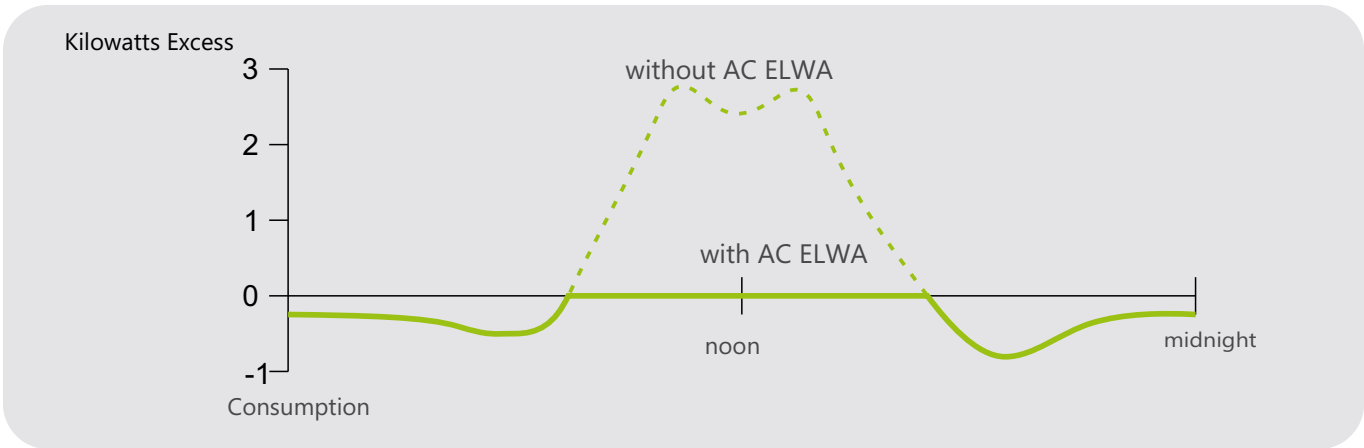


Like a grid connected inverter, AC ELWA works with high frequency electronic power switches. Therefore AC ELWA does not cause any power grid interference, differently to thyristor power switch units.



Perfect PV-excess energy management is pretty easy

With AC ELWA's linear power function the daily maximum of the photovoltaic excess energy of your grid connected PV System will be used.
No more trouble with small income from injected excess energy!



The PLA control works with maximum 6 pcs. AC ELWAs.
This allows excess energy management up to 18 kW!
AC ELWAs can work in stratification charge mode or in synchronous mode to optimize the hot water and house heating system.



AC ELWA is compatible with many smart home and energy management systems.
With an optional Universal Interface, AC ELWA can be used with many third-party smart home systems like KNX etc.



AC ELWA

| Technical Data | |
|--------------------------------|--|
| ■ Power range | 0-100 % linear, switch mode technology |
| ■ Heating power | 3,000 W |
| ■ Mains connection | Single phase, grounded plug, 230 V, 50 Hz |
| ■ Power cord | 3 m |
| ■ Standby consumption | <1.5 W |
| ■ Efficiency | >99 % at rated power |
| ■ Cos Phi | 0.999 at rated power |
| ■ Display | 3 LED's |
| ■ Communication with PLA | 1-wire-connection, max. AWG 16 / 1.5 mm ² |
| ■ Operating temperature range | 10 °C to 40 °C |
| ■ Protection class | IP 21 |
| ■ Dimensions (l x h x d) | 130 x 180 x 600 mm including heating rod |
| ■ Weight | 2 kg |
| ■ Heating rod length | 45 cm |
| ■ Heating rod thread dimension | 6/4 Inch |
| ■ Certification | CE, TOR D1, TAEV, TAB |
| ■ Warranty | 2 Years |

PLA

| | |
|-----------------------|-----------------------------------|
| ■ Measuring principle | 4 wire, 63 A |
| ■ Case | DIN rail, 4TE (71 mm) |
| ■ Data-interface | serial IR Interface |
| ■ Data logger | daily data, memory depth >5 years |

Universal Interface

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|----------------|--|
| ■ Interface | 0-10 V, RS485, IR |
| ■ Power supply | 5 V USB power supply included, 24 V DC |

USB Interface

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|-----------------------------------|--|
| ■ Interface for datalogger in PLA | PLA software available at www.my-pv.com |
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Subject to change without notice.



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