ATON

POWER TO HEAT

zeroridge

# Make effective use of surplus PV power

ATON is a plug & play solution for **using surplus PV energy – without additional wiring**. It consists of an energy meter and an immersion heater, which can be variably controlled from 50 W to 3 kW, for installation in a buffer cylinder.

Through a **wireless connection**, the energy meter (x2-tech) specifies the output the immersion heater can consume. The immersion heater sends all measurements (high limit safety cut-out, internal temperature and the values of the two external sensors) back to the energy meter.

### Benefits

- Minimal installation effort thanks to new x2 wireless technology and factory program
- Freely programmable for individual requirements
- Energy meter and immersion heater are connected ex works
- Up to 12 immersion heaters per energy meter
- Wireless range ~1 km free space / 2 reinforced concrete ceilings or walls

PLUG & PLAY

### Possibilities

- Optimisation of on-site consumption rate
- Central heating backup
- Domestic hot water heating outside the heating season
- Limited use with cylinders for drinking water (refer to manual)
- DL bus for controlling power controllers (new, see page 39) for enhanced energy management
- Remote access, datalogging and visualisation via C.M.I.

SMART METER FIT

Solutions conventionally available on the market use phase-angle control. Smart meters detect the momentary load and this **costs the customer money**.

**The intelligent ATON immersion heater** has a sinusoiadl power input, which avoids drawing expensive and unnecessary power from the grid.

## ATON SMART METER FIT

### Optimise on-site consumption of PV energy

**Set comprising EHS-R immersion heate and CAN-EZ3A energy meter.** The devices are connected wirelessly. The energy meter comes with electrical output measuring functions, CAN bus, DL bus and wireless functionality.

**Energy meter interfaces**

- DL bus, CAN bus
- Micro SD card

**ATON:**
CAN-EZ3A (r.)
EHS-R (bottom)

ATON

| Art. no. | Price £ + Vat |
|---|---|
| 01ATON | 487.00 |

EHS-R

SMART METER FIT

total length of immersion heater: 410 mm
screw thread: 1 1/2"

## Immersion heater – 3000 W variable control

### EHS-R

The EHS-R immersion heater (included with the ATON) can be controlled directly by the freely programmable controllers (UVR16x2 and RSM610) via PWM, with a variable output from 50 W to 3000 W.

The immersion heater sends the sensor values wirelessly back to the CAN-EZ3 for further utilisation or forwarding to the CAN bus or DL bus.

#### Inputs and interfaces

- 3 inputs
  - » 2 sensor inputs PT1000
  - » 1 PWM input 0-100% if not radio-controlled

EHS

total length of immersion heater: 410 mm
screw thread: 1 1/2"

## Immersion heater - 3000 W

### EHS

The EHS immersion heater switches the heating output in 750 W stages. In conjunction with the controlled EHS-R immersion heater or ATON, it is possible to arrange cascades economically. In the process, the EHS-R always performs the fine adjustment, which enables variable control of the output to be achieved.

#### Inputs and interfaces

- 3 inputs
  - » 2 sensor inputs PT1000
  - » 1 PWM input (in steps of 25%) if not radio-controlled

| Price group | Art. no. | Price + Vat |
|---|---|---|
| PG2 | 01EHS-R | **372.00** |
| PG2 | 01EHS | **314.00** |

Both makes of immersion heater are eligible for use in drinking water environments, but eligibility for installation in cylinders for DHW or drinking water is limited by galvanic reactions. Refer to manual for details.