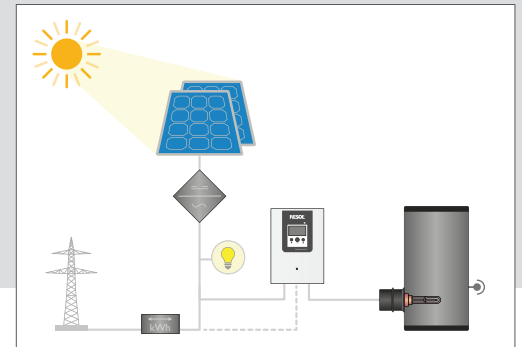




EXAMPLE



DeltaTherm® PV

The **DeltaTherm® PV** detects excess current, e.g. produced by PV systems, calculates the power available and redirects it to an electric heater. Thus, excess PV current can be directly converted into thermal energy and stored.

- Increase in self-consumption
- Reduction of heating costs
- Direct control of an electric immersion heater
- Variable and grid-compliant
- Household current priority
- Can be used with all PV systems
- 0-10 V control (optional)
- Backup heating with mains current (optional)

TECHNICAL DATA

- Inputs:** 3 Pt1000 temperature sensors, 2 digital switching inputs, 0-10V control input
- Outputs:** 2 digital switching outputs, variable power control up to 3 kW (electric immersion heater)
- Power supply:** 100–240 V~ (50–60 Hz)
- Supply connection:** type X attachment
- Standby:** 1.41 W
- Rated impulse voltage:** 2.5 kV
- Data interface:** RESOL VBus®
- VBus® current supply:** 35 mA
- Functions:** controller and power controller
- Housing:** sheet metal, powder-coated
- Mounting:** wall mounting
- Indication / Display:** full graphic display
- Operation:** 3 buttons
- Ingress protection:** IP 20 / EN 60529
- Protection class:** I
- Ambient temperature:** 0 ... 40 °C
- Degree of pollution:** 2
- Dimensions:** approx. 226 x 302 x 84 mm

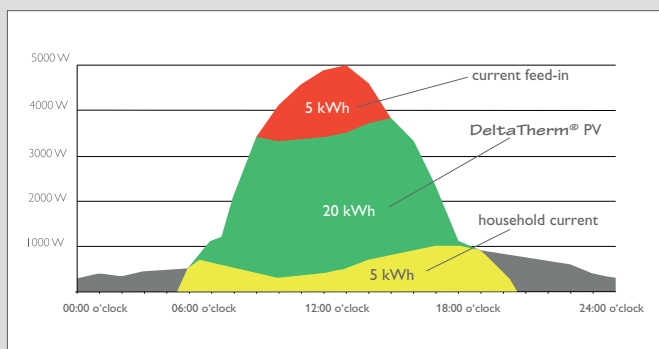


DeltaTherm® E sensor measuring unit

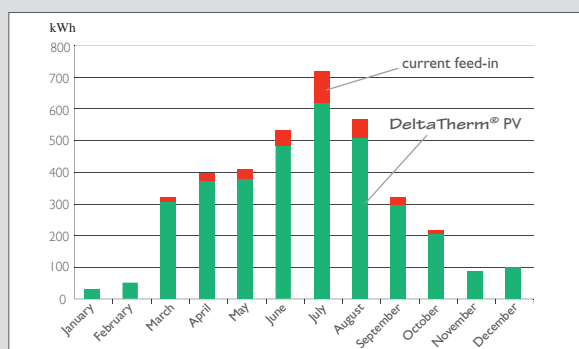
TECHNICAL DATA

- Inputs:** 3 current inputs and 3 voltage inputs for SW16 current sensors
- Power supply:** 100–240 V~ (50–60 Hz)
- Supply connection:** Y
- Standby:** < 1W
- Rated impulse voltage:** 1.0 kV
- Data interface:** RESOL VBus®
- Functions:** energy measuring unit
- Housing:** plastic, PC (UL 94 V-0)

- Mounting:** DIN rail in the domestic distribution board
- Indication / Display:** 2 operating control LEDs
- Ingress protection:** IP 20 / EN 60529
- Protection class:** II
- Ambient temperature:** 0 ... 40 °C
- Degree of pollution:** 2
- Dimensions:** 71 x 90 x 58 mm

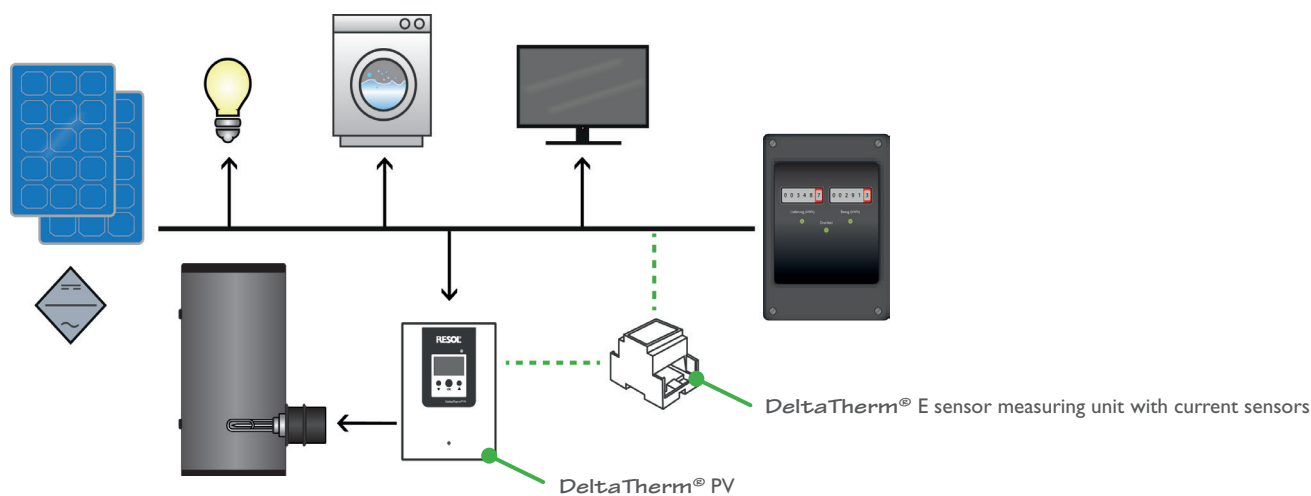


Daily profile of a 5 kWp PV system (example) with heat storage via the DeltaTherm® PV power-to-heat controller



Annual profile of a 5 kWp PV system (example, without household current)

EXAMPLE



Article no.	Article	Price bracket
115 006 53	DeltaTherm® PV – Power-to-Heat controller – Full kit » incl. measuring unit, 3 current sensors and 1 Pt1000 sensor (FRP6)	B
290 030 80	Spare fuses DeltaTherm® PV – bag with fuses 3 x T16A and 3 x F16 A	C

Electric immersion heater

The electric immersion heater is designed for installation into a hot water store and can be used for heating as well as for DHW heating. In combination with the DeltaTherm® PV it converts excess PV current into thermal energy.



- Single-phase electric immersion heater up to 3 kW, variable and grid-compliant
- Thermal cut-out at 95 °C
- Using excess current for heating a water store

TECHNICAL DATA

Material: heating element: 2.4858, INCOLOY® 825
Operating pressure: max. 10 bar
Maximum temperature seal pipe end: 120 °C
Maximum temperature pipe surface: 120 °C
Operating voltage: 230 V~
Power: 3 kW
Immersion depth: 250 mm
Unheated length: 95 mm
Thermal cut-out: 95 °C

Article no.	Article	Price bracket
180 112 00	Electric immersion heater 3 kW 230V~ (1½") » incl. connection cable	B