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Only a small part of the self-generated PV current can be directly used as household current. With the *DeltaTherm*<sup>®</sup> PV the self-consumption of a 5 kWp PV system can be increased by up to 400 %.

Common buffer stores can store between 50 to 80 kWh of heat and are therefore a simple and economical solution for storing excess current.



The yield can be visualised over the Internet portal VBus.net.



The DeltaTherm<sup>®</sup> E sensor measures the current flow directly in front of the energy meter in the house. If a current excess is detected, the DeltaTherm<sup>®</sup> PV controls an electric immersion heater in the store. In this way, the excess current produced by the PV system can be used for heating and DHW heating – also for several days.

## Technical data DeltaTherm<sup>®</sup> PV

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 Y attachment Standby: 1.41 W Rated impulse voltage: 2.5 kV Data interface: VBus® VBus<sup>®</sup> 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: | Ambient temperature: 0 ... 40 °C Degree of pollution: 2 Dimensions: approx. 226 x 302 x 84 mm

## Technical data DeltaTherm<sup>®</sup> E sensor

Inputs: 3 current inputs and 3 voltage inputs for SW16 current sensors **Power supply:** 100...240 V~ (50...60 Hz) Supply connection: type Y attachment Standby: < 1W Rated impulse voltage: 1.0 kV Data interface: 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: || Ambient temperature: 0...40°C Degree of pollution: 2 Dimensions: 71 x 90 x 58 mm

## DeltaTherm<sup>®</sup> PV – Full kit

Incl. measuring unit (DeltaTherm® E sensor), 3 current sensors and 1 Pt1000 sensor (FRP6) Price bracket B | Article no.: **115 006 53** 

Electric immersion heater 3 kW 230V~ 1½", incl. connection cable 3 m Price bracket B | Article no.: **180 112 00**