



Now also available for applications > 63 A thanks to external current transformers.

### Easy to Use

- Quick plug and play installation
- Graphic visualization of current measured values in Sunny Portal

### Flexible

- Space-saving DIN rail mounting in household distribution thanks to compact enclosure
- Flexible use in applications >63 A thanks to external current transformers

- Suitable for universal use regardless of existing energy meter

### High Performance

- Fast three-phase, bidirectional reading of measured values for effective energy management
- Fast Speedwire communication

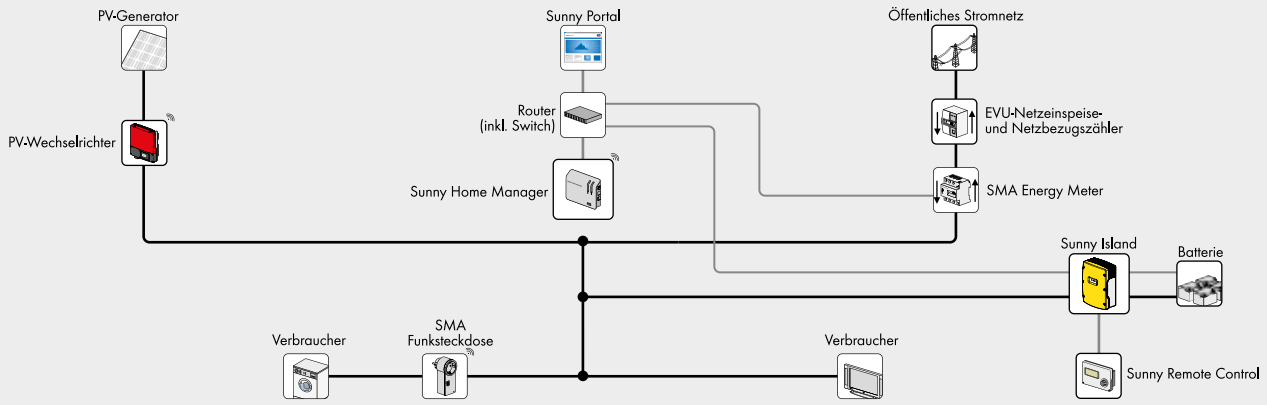
## SMA ENERGY METER

Universal recording of measured values for intelligent energy management

The powerful measurement solution for intelligent energy management within the SMA Smart Home: The SMA Energy Meter takes phase-accurate and balanced electrical measured values, such as a grid feed-in and purchased electricity meter, and communicates these values via Speedwire. Thanks to its ability to quickly acquire bidirectional measured values, the SMA Energy Meter is the ideal supplier of data for intelligent energy management within the SMA Smart Home. All PV generation data, purchased electricity and grid feed-in can be transmitted via standard Ethernet cable to the Sunny Home Manager, for example, or, in the future, to the Sunny Boy Smart Energy. This, in turn, facilitates optimal energy monitoring, effective load and battery management and reliable active power limitation at the grid feed-in point while taking self-consumption into account.

\* Can also be used in single-phase systems.

## Storage application example



### Technical data

#### Communication

Fieldbus

#### Max. radio range

Speedwire / fast Ethernet

#### Inputs (voltage and current)

Nominal voltage

Frequency

Nominal current / limiting current per line conductor

Start-up current

Connection cross-section

Torque for screw terminals

#### Ambient conditions in operation

Ambient temperature

Storage temperature range

Protection class (according to IEC 62103)

Degree of protection (according to IEC 60529)

Max. permissible value for relative humidity (non-condensing)

#### General data

Dimensions (W / H / D)

Individual units

Weight

Mounting location

Mounting type

Status display

Self-consumption

Measurement accuracy

Sampling frequency

Languages of the manual

#### Features

Warranty

Certificates and permits (more available on request)

### SMA Energy Meter

Speedwire, 10/100 Mbit/s

100 m (between two devices)

230 V / 400 V

50 Hz, 60 Hz / ±5%

5 A / 63 A (>63 A can be connected via external current transformers)

<25 mA

1.0 mm<sup>2</sup> to 25 mm<sup>2</sup>

2.0 Nm

-25 °C to +40 °C (-13 °F ... +104 °F)

-25 °C ... +70 °C (-13 °F ... +158 °F)

II

IP2X

5% - 95%

88 / 70 / 65 mm

(3.46 / 2.76 / 2.56 inch)

4

0.3 kg (0.66 lb)

Switch or meter cabinet

Top-hat rail mounting

2 LEDs

<2 W

1%

<1 Hz

German, English, Italian, French, Spanish, Dutch, Portuguese, Greek

2 years

[www.SMA-Solar.com](http://www.SMA-Solar.com)

Last updated: February 2014

● Standard features ○ Optional features – Not available / Data at nominal conditions

Type designation

EMETER-10