## **SMA ENERGY METER**





### 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**

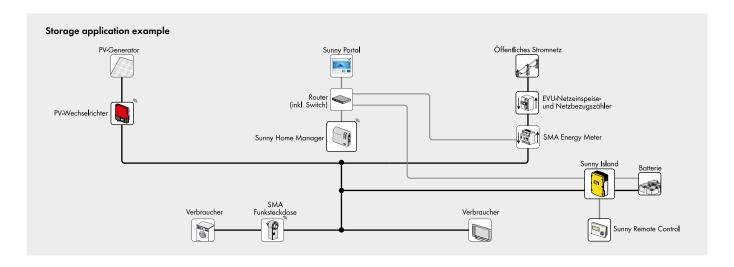
- Fast three-phase, bidirectional reading of measured values for effective energy management
- Fast Speedwire communication

# **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.

<sup>\*</sup> Can also be used in single-phase systems.



Technical data	SMA Energy Meter
Communication	
Fieldbus	Speedwire, 10/100 Mbit/s
Max. radio range	
Speedwire / fast Ethernet	100 m (between two devices)
Inputs (voltage and current)	
Nominal voltage	230 V / 400 V
Frequency	50 Hz, 60 Hz / ±5%
Nominal current / limiting current per line conductor	5 A / 63 A (>63 A can be connected via external current transformers
Start-up current	, <25 mA
Connection cross-section	1.0 mm <sup>2</sup> to 25 mm <sup>2</sup>
Torque for screw terminals	2.0 Nm
Ambient conditions in operation	2.0 1 1111
Ambient temperature	-25°C to +40 °C (-13 °F +104 °F)
Storage temperature range	-25 °C +70 ° C (-13 °F +158 °F)
Protection class (according to IEC 62103)	
Degree of protection (according to IEC 60529)	IP2X
Max. permissible value for relative humidity (non-condensing)	5% - 95%
General data	3/0 - 93/0
	00 / 70 / 45
Dimensions (W / H / D)	88 / 70 / 65 mm
ndividual units	(3.46 / 2.76 / 2.56 inch)
Weight	4
Mounting location	0.3 kg (0.66 lb)
Mounting type	Switch or meter cabinet
Status display	Top-hat rail mounting
Self-consumption	2 LEDs
Measurement accuracy	<2 W
Sampling frequency	1%
Languages of the manual	<1Hz
	German, English, Italian, French, Spanish, Dutch, Portuguese, Greek
Features	
Warranty	2 years
Certificates and permits (more available on request)	www.SMA-Solar.com
Last updated: February 2014	
● Standard features O Optional features — Not available / Data at nominal conditions	
Type designation	EMETER-10