



Quick and easy

- Intuitive commissioning
- Energy meter and data logger in one device
- Compatible with Sunny Portal¹⁾ and Sunny Portal powered by ennexOS

Highly flexible

- 50 Hz/60 Hz operation for single-, split- and three-phase systems in TN, TT and IT networks
- Backward-compatible with EMETER-20

Reliable and convenient

- Complies with international grid integration requirements
- Detailed analytics, alert system and reporting

Future-proof

- Flexibly and individually expandable using software extension packages
- Access to the energy market of the future

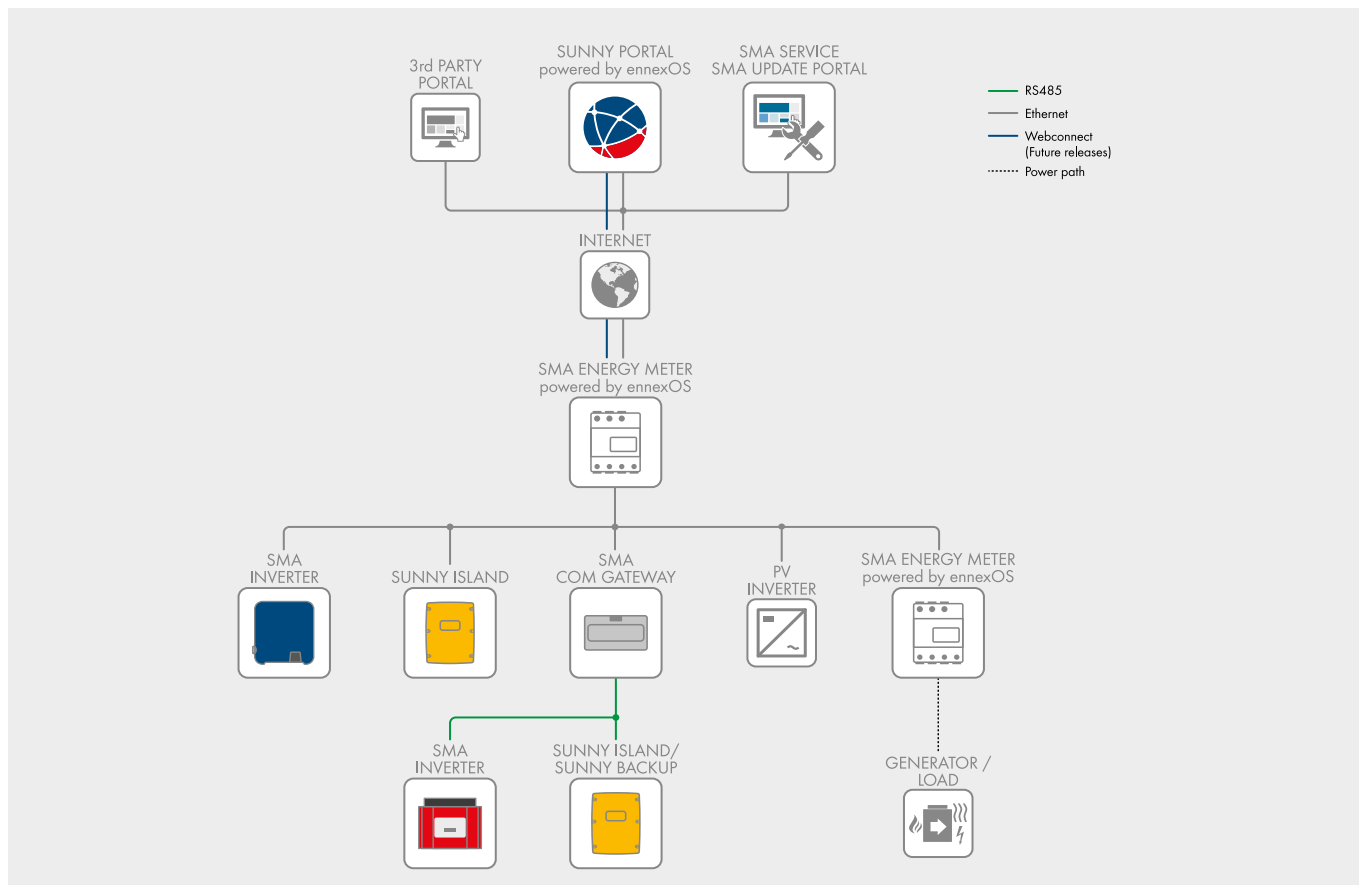
SMA ENERGY METER powered by ennexOS

Get the most out of PV and storage systems

Increased flexibility and enhanced functionality: Building on the tried and tested SMA Energy Meter, the SMA Energy Meter powered by ennexOS optimizes communication, monitoring and control of PV and storage systems. Intuitive assistants for system and inverter configuration make commissioning significantly easier. System and inverter parameters can be remotely altered anywhere via the new Sunny Portal powered by ennexOS.²⁾ Thanks to its powerful, user-friendly interface, the SMA Energy Meter powered by ennexOS is the ideal platform for managing small PV and storage systems or monitoring generators and loads. It also supports inverters from other manufacturers with the SunSpec Modbus/TCP interface. Thanks to the ennexOS platform, new functions will regularly be made available.

1) Functionality can be ensured only in conjunction with an SMA Webconnect-capable inverter

2) Free of charge within the first 6 months of registration



Technical data	SMA ENERGY METER powered by ennexOS
Communications	
Supported devices	Max. 4 devices: Inverters (max. 1 battery inverter), SMA Energy Meter, I/O systems
Max. nominal AC power of all inverters	30 kW
Connection to devices	SMA Speedwire, Modbus, SunSpec Modbus/TCP (end of 2019)
Connection to the local router	via Ethernet cable (10/100 Mbit/s, RJ45 plug)
Inputs (voltage and current)	
Nominal voltage	110 V / 230 V / 400 V
Frequency	50 Hz $\pm 5\%$ / 60 Hz $\pm 5\%$
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	10 mm ² to 16 mm ² ¹⁾ (for 63 A fusing)
Torque for screw terminals	2.0 Nm
Ambient conditions during operation	
Ambient temperature	-25 °C to +40 °C
Storage temperature range	-25 °C to +60 °C
Protection class (according to IEC 62103)	II
Degree of protection (according to IEC 60529)	IP2X
Max. permissible value for relative humidity (non-condensing)	5% to 90%
Elevation above MSL	0 m to 2000 m
General data	
Dimensions (W/H/D)	70 mm / 88 mm / 65 mm
Individual units DIN rail	4
Weight	0.3 kg
Mounting location	Switch or meter cabinet
Mounting type	DIN rail mounting
Status display	3 LEDs
Self-consumption	< 3.5 W
Measurement accuracy, measuring cycle	1%, 200 ms to 1000 ms
Equipment	
Warranty	2 years
Certificates and permits (more available upon request)	www.SMA-Solar.com
Last update: 08/2019	
1) Mechanical 1.5 mm ² to 25 mm ²	
Type designation	EMETER-30