EMETER-20 / EM-1CT63A-21 / EM-3CT63A-21





# SMA Energy Meter and SMA Energy Meter CT

Universal Data Recording for Energy Measurements

/ Solution for single- and three-phase installations



## Simple

Quick plug and play installation

# **Flexible**

- Use in single- or three-phase installations
- Individual usability: directly connected lines or measurements via current transformer
- Space-saving DIN rail mounting

# **Powerful**

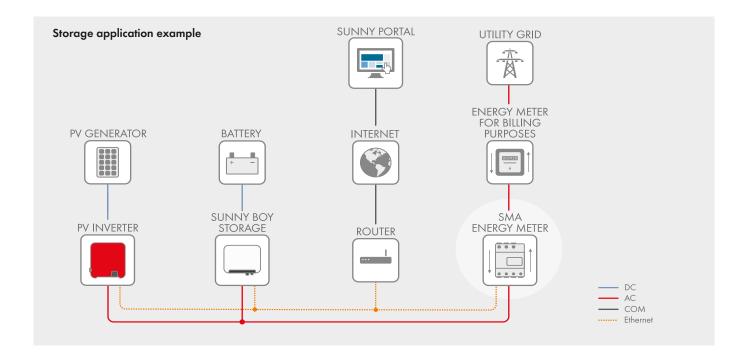
- Fast three-phase, bidirectional reading for effective energy management
- Optimal use in Sunny Home Manager and System Manager systems

## **Application**

- Total PV generation meter
- Integration of third-party inverters possible

Both the SMA Energy Meter and the SMA Energy Meter CT measure electrical values and transmit them via Ethernet in the local network. This allows for precise and frequent communication of data regarding grid feed-in, grid-supplied power, and PV generation from other inverters to SMA systems.

The SMA Energy Meter CT offers single- and three-phase solutions with measurements via current transformers, while the SMA Energy Meter uses directly connected lines. Both devices can measure PV generation and function as bi-directional grid-supply meters. They integrate seamlessly into the PV system, providing an optimally coordinated configuration that maximizes power and stability. The measured values enhance the energy management system, contributing to increased self-consumption and reduced energy costs.



Technical data	SMA Energy Meter	SMA Energy Meter CT
Connection range / area of application		
Nominal voltage	230 V to 400 V~	85 V to 250 V~
Frequency range	50 Hz / 60 Hz (±5%)	50 Hz / 60 Hz (±5%)
Self-consumption, PMAX	≤ 3 W	≤ 2 W
Installation site: DIN rail in the switch or meter cabinet	•	•
Mounting type: direct connection / connection current transformer	• / •	<b>-/●</b>
Number of current transformers in the scope of delivery	0	1 3
Interfaces: Wi-Fi / Ethernet	-/●	<b>-/●</b>
Operation and visualization		
Local UI, SMA ennexOS portal, locale devices LED	•/•/•	-/●/●
Measurement range		
Limiting current I <sub>N</sub> / Line conductor	max 63 A	max 63 A
Extendable by additional CLASS1 current transformer	•	_
Measuring accuracy	≤ 1%	≤ 2%
Measuring cycle 1000 ms / 200ms	• / •	•/•
General Data		
Dimensions (W / H / D)	70 mm / 88 mm / 65 mm	35 mm / 88 mm / 65 mm
Individual units DIN rail	4	2
Weight	0.3 kg	0.2 kg / 0.3kg
Ambient temperature in operation	-25 °C to +40 °C	-25 °C to +55 °C
Ambient temperature during transport/storage	-25 °C to +70 °C	-25 °C to +70 °C
Max altitude during operation	2000 m above sea level	2000 m above sea level
Protection class (according to IEC 62103)	II	II
Degree of protection (as per IEC 60529)	IP20	IP20
Overvoltage category	CAT III	CAT III
Warranty	2 years	2 years
Certificates, approvals and manufacturer's declarations	www.SMA-Solar.com	www.SMA-Solar.com
	EMETER-20	EM-1CT63A-21 EM-3CT63A-2

 $<sup>\</sup>bullet \ \, \text{Standard features} \quad \circ \ \, \text{Optional features} \quad - \, \text{Not available} \quad \, \text{Version: 06/2024}$