



SMA Energy Meter-US*

Pair with the Sunny Boy Smart Energy hybrid inverter to optimize savings and effectively monitor home energy consumption

Monitor home energy

- View energy savings by monitoring home energy use and flows
- Realtime data via the SMA Energy app and SMA Sunny Portal
- Track solar generation and home consumption history

Easy, flexible installation

- UL 2808 certified
- Plug-and-play, space-saving design with pre-terminated wiring (included) and split-core, quick-connect current transformers (CTs)
- Flexible use in home and small commercial applications
- Fast commissioning via the SMA 360° app
- Connect by Ethernet (easiest, preferred) or RS485 (optional)
- Flexible mounting adapter works in a variety of configurations

Tech Tip Installation Video



The new SMA Energy Meter empowers installers and homeowners to control energy savings by monitoring the home's energy use and flows.

Homeowners can understand their home's energy use and solar generation while learning how energy is consumed, generated and stored. Paired with the SMA Sunny Boy Smart Energy, the SMA Energy Meter will provide valuable information that aids in making future design decisions, such as adding backup and battery capacity.

The SMA Energy Meter is compact, easy to install and quick to configure via the SMA 360° app. With the SMA Energy app, homeowners can monitor energy consumption to easily track energy costs, quantify savings and view the net positive impact.

What's included:



SMA Energy Meter



Power cable with preconfigured connector



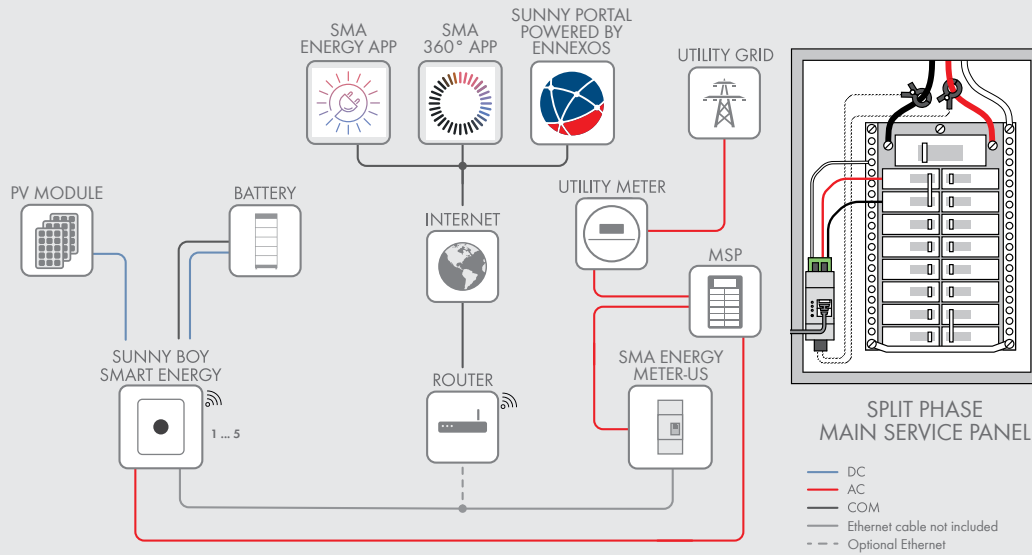
Mounting adapter




2 Quick-connect CTs

*Only compatible for use with the Sunny Boy Smart Energy-US

Residential use case example



Technical data	SMA Energy Meter-US
Communication	
Plug and play connection to the inverter (SBSE x.x-US-50) or local area network (LAN) router	Preferred method - Use Ethernet cable (#24AWG, min 300 V, shielded, 10/100 Mbit/s, RJ45 plugs) Backup method - Use RS485 cable (2 x 2 x 24AWG, shielded)
Data protocol	SMA Speedwire, Modbus RTU
Inputs (voltage)	
Voltage inputs	4 (L1, L2, L3, N) pre-wired (3 ft/0.9 m)
Nominal voltage	120/240 V, 120/208 V, 240 V Delta
Frequency	50 or 60 Hz/±5%
Ambient conditions	
Operating temperature range	-13 °F to +131 °F (-25 °C to +55 °C)
Transport temperature range	-13 °F to +158 °F (-25 °C to +70 °C)
Environmental protection rating	NEMA1
Max. relative humidity	Up to 75% as an annual average, up to 90% on up to 30 days/year
Max. elevation	6,562 ft (2000 m)
General data	
Applications	Split-phase (120/240V), 3-phase (120/208V), 240V Delta, paired with Sunny Boy Smart Energy (SBSE x.x-US-50) inverter(s)
Energy Meter Dimensions W/H/D in inches (mm)	3.46 x 1.38 x 2.56 in (88 x 35 x 65 mm)
Weight	0.2 lb (90 g) load
Mounting location	Indoors or inside 3R-rated enclosure (e.g. load center, meter/main, panelboard)
Status display / internal power consumption	3 LEDs / ≤ 2 W
Measurement accuracy, measuring interval	2%, 200 ms
Features	
CT assembly	2 quick-connect CTs with 1 pre-configured connector
CT ratings	CAT IV 250V, 200A rated, UL2808
CT cable length in inches	48"
CT inside diameter in inches	0.94"
Warranty	2 years **
Certificates and permits	UL2808, CAN/CSA C22.2 No. 61010-1 and 61010-2-030, EMC FCC 47 CFR Part 15B, ICES-003 (Canada), TSCA section 6(h) Compliant
Type designation	EMETER-US-50
Accessories	
 SMA CT Kit (10 ct) ¹⁾ EMT-CTKIT-US-50	
**Subject to limitations and detailed provisions in the applicable SMA Limited Factory Warranty	
Last updated: February 2024 1) Sold separately for 3-phase use cases and spares - Additional SMA CT Kit (EMT-CTKIT-US-50), which contains a box of 10 pieces of CTs	