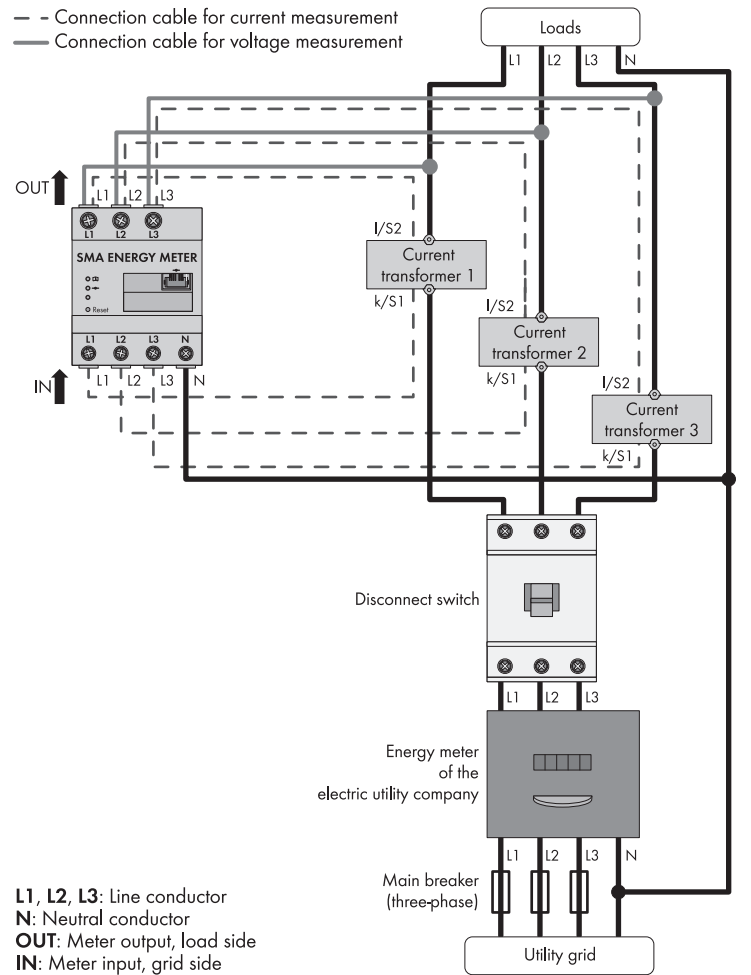


The following figure shows a connection example in TN and TT grid configurations in the case of installation at the grid-connection point. For exact connection specifications, contact your electric utility company.

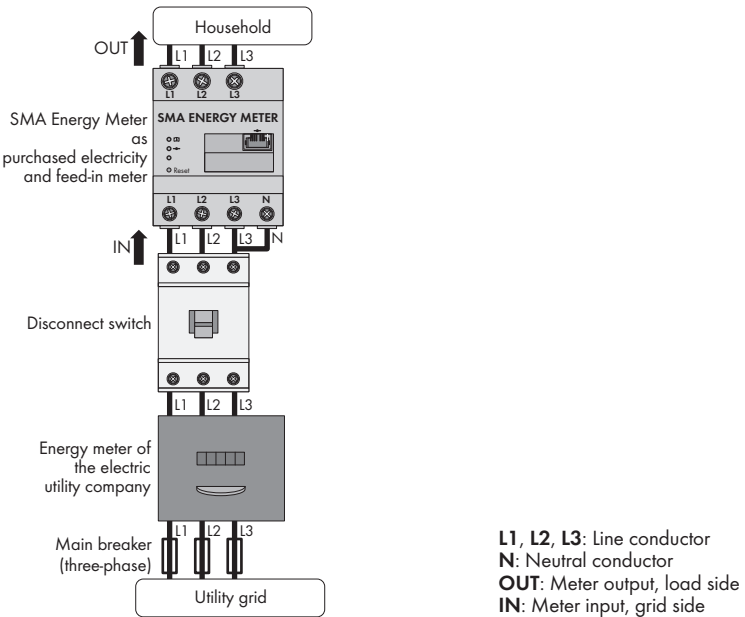


- ☐ 3 x current transformer
- ☐ Connection cables for current transformers

SMA Solar Technology AG recommends current transformers designed for a secondary current of 5 A. The current transformers should have at least accuracy class 1.

1. Connect one current transformer to each line conductor L1, L2 and L3.
2. On each current transformer, connect one connection cable for current measurement to each of the secondary current terminals (**k/S1** and **l/S2**). Observe the permitted connection cross-section of the Energy Meter (see Section "Technical data"):
3. Connect the connection cables for current measurement (dashed gray line) to the Energy Meter. Observe the prescribed torque for screw terminals (see Section "Technical data").
4. Connect the connection cables for voltage measurement (solid gray line) to the Energy Meter. Observe the prescribed torque for screw terminals (see Section "Technical data").
5. Connect the connection cables for voltage measurement to the corresponding line conductors.

The following figure shows a connection example in delta IT networks in the case of installation at the grid-connection point. For exact connection specifications, contact your electric utility company.



- Connect the line conductors L1, L2 and L3 and the neutral conductor to the Energy Meter in accordance with the wiring diagram. Observe the permitted connection cross-section and torque for screw terminals (see Section "Technical data"):

Data transmission with the Energy Meter works with multicasts. For the correct function of the Energy Meter, all network devices used must support the IGMP protocol, minimum required version 2 (IGMP V2).

- SF/UTP, S-FTP, S/UTP, SF/FTP, S/FTP, S-STP
For further information on cable types, refer to the Technical Information "SMA Speedwire Fieldbus" at www.SMA-Solar.com.

1. Connect the network cable to the network terminal (Ethernet) of the Energy Meter.
2. Connect the other end of the network cable to a router/network switch. SMA products which are to receive measured values must be integrated in the same local network. If multiple SMA products in the local network require the measured values from the Energy Meter, do not connect the network cable directly to an individual SMA product.

1. Cover the Energy Meter with the cover or the contact protection of the sub-distribution.
2. Switch the power supply to the subdistribution back on.
 - ☑ The LEDs of the Energy Meter glow during start-up. If there is only one Energy Meter in the system, the Energy Meter connects automatically to SMA communication products in the same local network. For more information on commissioning, see the manual of the supported devices.
 - ✗ The LEDs are not glowing or the Energy Meter is not displayed by the SMA communication products?
 - Correct the error (see Section "Troubleshooting").

1. Call up the web browser and in the address line enter **http://SMA"Serial number".local**, e.g.:
http://SMA7435667356.local
Note: The serial number can be found on the type label of the Energy Meter.
2. Select user group and enter the password.
Tip: The standard password for the user group **User** is "0000."
The standard password for the user group **Installer** is "1111."


1. Call up the user interface of the Energy Meter.
2. Call up the menu **Device Parameters**.
3. Select [**Editing Parameters**].
4. Set the parameter **external transformer** in the parameter group **Device > Device** to **Yes**.
5. Enter the desired transmission ratios for the parameters **Primary current** and **Secondary current**.
6. Select [**Save all**] to save the changes.

1. Download the update file from www.SMA-Solar.com and save it to your computer.
2. Call up the user interface of the Energy Meter.
3. Select the menu **Device Configuration**
4. Select **[Settings]**.
5. In the context menu, select **[Updating the Firmware]**.
6. Follow the instructions in the dialog.

PROCEDURE AFTER REPLACING AN ENERGY METER

- If more than one Energy Meter is installed in your system and you have replaced one or more Energy Meters, you will need to adjust the serial number of the corresponding Energy Meter in the inverter or in the communication product. This will avoid inaccurate meter reading data in the Speedwire data module:
 - In systems without Sunny Home Manager, enter the serial number of the Energy Meter via Sunny Explorer or the user interface in the inverter or in the communication product (for information on changing device parameters, see the manual of the respective product).
 - In systems with Sunny Home Manager, configure the Energy Meter in Sunny Portal (see user manual of the Sunny Home Manager).

- Check the connection and commissioning, and perform again if necessary.

**⚠ DANGER**

Danger to life due to electric shock

Lethal voltages are present in the switch cabinet.

- Disconnect the connection point from voltage sources and make sure it cannot be reconnected.
- Ensure that the conductors to be disconnected from the Energy Meter are de-energized.

1. Remove all conductors connected to the Energy Meter.
2. Remove the Energy Meter from the top-hat rail. Tilt the lower edge of the Energy Meter forwards and lift off the top-hat rail.

- Dispose of the Energy Meter in accordance with the locally applicable disposal regulations for electronic waste.

The licenses for the software modules used can be called up on the user interface of the product. You can request the source code with modifications from the Service department.

If you experience any technical problems with our products, please contact the Service. The following data is required in order to provide you with the necessary assistance:



<https://go.sma.de/service>

Sonnenallee 1
34266 Niestetal
Germany
Tel. +49 561 9522-0
Fax +49 561 9522-100
E-mail: info@SMA.de
www.SMA.de

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