



## Manufacturer's Declaration

### Zero Feed-in Mode (Zero Export) for PV Systems

From firmware version 1.11.4.R, the Sunny Home Manager is equipped with a new feature that reduces feed-in of locally generated PV power to the utility grid to a minimum. This makes it possible to realize PV systems with almost 100% self-consumption.

In Zero Export mode, the Sunny Home Manager ensures that the PV power currently generated by the inverters always matches the current power consumption of the household. If an active load/appliance in the household is switched off, the grid feed-in of excess PV power will automatically be reduced to a value less of than 2% of nominal PV system power within a reaction time of 1.5 to 2.5 seconds.

This control characteristic is valid under the following conditions:

1. When the Sunny Home Manager 2.0 (HM-20) is installed at the grid-connection point via its integrated measuring device, the control of feed-in power is being carried out correctly.
2. An SMA Energy Meter must be installed at the grid-connection point in connection with the Sunny Home Manager Bluetooth (HM-BT-10).
3. All necessary installation measures are carried out and checked in accordance with the installation manual of the Sunny Home Manager.
4. Configuration of the active power limitation settings to 0% is done by a qualified technician.

#### Information:

1. In case of Sunny Home Manager Bluetooth (HM-BT-10): If DO meters are used to measure the power level for grid feed-in and grid purchase at the grid-connection point, the Zero-Feed-in reaction time of will be prolonged due to the significantly slower output of measured values. The maximum permitted rate of measured value output is fixed at 1 value per 4 seconds. If measurement values are received in larger intervals, the PV inverters will permanently be set to an output power of 0 W AC.
2. SO meters are not supported.
3. In terms of zero export, the operation of a Sunny Boy Smart Energy is not being supported. The use of other SMA inverters is possible as of firmware version 1.13.

Niestetal, 2017-04-12

**SMA Solar Technology AG**

A handwritten signature in black ink, appearing to read 'ppa. Johannes Kneip', is written over a light blue horizontal line.

ppa. Dr.-Ing. Johannes Kneip  
EVP Development Center