



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 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. An SMA Energy Meter is used to measure grid purchase and grid feed-in power levels at the grid-connection point.
2. All necessary installation measures are carried out and tested according to the instructions given in the Sunny Home Manager installation manual.
3. Configuration of the active power limitation settings to 0% is done by a qualified technician.

Information:

1. 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 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.
1. SO meters are not supported.
2. In the firmware version 1.11.4.R, battery inverters are not fully supported. If, for instance, a Sunny Boy Smart Energy or a Sunny Island is used in the local PV system, the battery will be discharged without any possibility of recharge.

Niestetal, January 23, 2015

SMA Solar Technology AG

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

ppa. Frank Greizer

(Head of Development SI Solutions)