



## Manufacturer's Declaration

### for Sunny Tripower Inverters

The PV inverters listed below are three-phase generation units that feed symmetric power into the connected electricity grid in feed-in operation. To provide grid monitoring and to fully prevent the formation of a stand-alone grid, all Sunny Tripower inverters have an integrated, automatic SMA Grid Guard Version 4 disconnection device.

This device includes voltage and frequency monitoring that is permanently active in operating mode. Three-phase voltage monitoring has been implemented that monitors the voltages between the line conductors (line to line) and the voltages of each individual line conductors (line to neutral).

Moreover, SMA Grid Guard has been designed in a fail-safe manner, which means that the system checks itself at frequent time intervals (e.g. using plausibility tests). Malfunctions such as those relating to monitoring, signal processing or the shut-down device are detected, reported and – depending on the seriousness of the fault – may lead to (possibly permanent) grid disconnection of the inverter.

The BGETEM (German accredited test institution) has carried out tests to confirm that the disconnection device is safe, including in particular the requirement for fail-safe operation. The relevant clearance certificate can be accessed in the download section at [www.SMA.de](http://www.SMA.de).

<b>SUNNY TRIPOWER</b>	
without transformer	
STP 15000TL-10	STP 5000TL-20
STP 17000TL-10	STP 6000TL-20
STP 15000TLEE-10	STP 7000TL-20
STP 20000TLEE-10	STP 8000TL-20
	STP 9000TL-20
	STP 10000TL-20
	STP 12000TL-20
	STP 20000TL-30
	STP 25000TL-30

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**SMA Solar Technology AG**

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