

**Certificate of conformity
NS protection**

Nr: 2016– 1609

Manufacturer	Steca Elektronik GmbH
Type of NS protection	Steca-ENS; integrated NS protection
Type Power generation unit	Turbo 1P Mini, Turbo 1P
Network connection rule	VDE-AR-N 4105 „Power generation system connected to the low-voltage grid“ Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage grid

The network and systems protection mentioned above meets the requirements of VDE-AR-N 4105.

setting values and trip times (disconnection times):

voltage drop protection U<:	184 V, < 200 ms
Rise-in voltage protection U>*:	253 V, < 200 ms
Rise-in voltage protection U>>:	264 V, < 200 ms
Frequency decrease protection f<:	47,5 Hz, < 200 ms
Frequency increase protection f>:	51,5 Hz, < 200 ms

* 10-minute running mean value according to DIN EN 50160

Islanding detection is carried out by means of a frequency shift method

It is hereby confirmed that – except the above mentioned items - the specific requirements of DIN V VDE V 0126-1-1:2006-02 +A1:2011-06 have been tested.

VDE-AR-N 4105 compliance is guaranteed in all inverters with firmware "NET11_ENS_3.51" or higher.

Memmingen, 07.03.2016

Steca Elektronik GmbH

ppa. Ralf Griepentrog



This certificate of conformity shall not be used in parts.



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