

**Certificate of conformity
NS protection**

Nr: 2013 – 1318

Signed copy No. 1

Manufacturer

Steca Elektronik GmbH

Type of NS protection

Steca-ENS; integrated NS protection

Type Power generation unit

StecaGrid 8000+ 3ph
StecaGrid 10000+ 3ph

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 " ENS V 4.8" or higher.

Memmingen, 19.04.2013

Steca Elektronik GmbH

ppa. Ralf Griepentrog

This certificate of conformity shall not be used in parts.



Steca Elektronik GmbH
Mammostraße 1
87700 Memmingen
service@stecasolar.com