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## Certificate of compliance

**Applicant:** Sunways AG  
Photovoltaic Technology  
Macairestraße 3 – 5  
78467 Konstanz  
Germany

**Product:** Automatic disconnection device between a generator  
and the public low-voltage grid

**Model:** NT 2500, NT 3000, NT 3700, NT 4200, NT 5000

**Use in accordance with regulations:**

Automatic disconnection device with three-phase (or single-phase) mains surveillance in accordance with DIN V VDE V 0126-1-1:2006-02 for photovoltaic systems with a single-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverter. This serves as a replacement for the disconnection device with insulating function which the distribution network provider can access at any time.

**Applied rules and standards :**

DIN V VDE V 0126-1-1 (VDE V 0126-1-1):2006-02 and „Generator at the public low-voltage grid, 4th edition 2001, guideline for connection and parallel operation of generators in the public low-voltage grid” with VDN additions (2005) from the German Electricity Association (VDEW) and Association of network operator (VDN).

The safety concept of an aforementioned representative product corresponds at the time of issue of this certificate of valid safety specifications for the specified use in accordance with regulations.

**Report number:** 08TH0232-VDE0126  
**Certificate number:** U11-135  
**Date of issue:** 2011-02-21      **Valid until:** 2012-08-11

Achim Hänchen



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## Certificate of compliance

**Applicant:** Sunways AG  
Photovoltaic Technology  
Macairestraße 3 – 5  
78467 Konstanz  
Germany

**Product:** Automatic disconnection device between a generator  
and the public low-voltage grid

**Model:** NT 10000, NT 11000, NT 12000

**Use in accordance with regulations:**

Automatic disconnection device with three-phase mains surveillance in accordance with DIN V VDE V 0126-1-1:2006-02 for photovoltaic systems with a three-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverter. This serves as a replacement for the disconnection device with insulating function which the distribution network provider can access at any time.

**Applied rules and standards:**

DIN V VDE V 0126-1-1 (VDE V 0126-1-1):2006-02 and „Generator at the public low-voltage grid, 4th edition 2001, guideline for connection and parallel operation of generators in the public low-voltage grid“ with VDN additions (2005) from the German Electricity Association (VDEW) and Association of network operator (VDN).

The safety concept of an aforementioned representative product corresponds at the time of issue of this certificate to the valid safety specifications for the specified use in accordance with regulations.

**Report number:** 09TH0495-VDE0126  
**Certificate number:** U10-079  
**Date of issue:** 2010-03-16      **Valid until:** 2013-03-16

Andreas Aufmuth

### CE Declaration of Conformity

We herewith declare that the following products are in accordance with the provisions of the EMC directive 2004/108/EC and the EC low voltage directive 2006/95/EC as well as the other below-mentioned norms.



Norm	Description of the norm	NT 2500, NT 2600, NT 3000, NT 3700, NT 4000, NT 4200, NT 5000, NT 6000, NT 8000, NT 10000 (850 V), NT 10000 (900 V), NT 11000, NT 12000	AT 2700, AT 3000, AT 3600, AT 4500, AT 5000	PT 30k PT 33k (IP42, IP54, IP54/Outdoor)
EN 50178:1997 IEC 62103:2003	Electronic equipment for use in power installations	X	X	X
EN 61000-3-2:2008	Limits for harmonic current emissions < 16 A per phase	X	X	
EN 61000-3-3:2006	Limitation of voltage fluctuations and flicker < 16 A per phase	X	X	
EN 61000-3-11:2000	Electromagnetic compatibility (EMC) by equipment > 16 A and < 75 A per phase	X	X	X
EN 61000-3-12:2005	Limits for harmonic currents produced by equipment > 16 A and < 75 A per phase	X	X	X
EN 61000-6-2 :2006	Generic standards – Immunity for industrial environments	X	X	X
EN 61000-6-3:2005	Generic standards – Emission standard for residential, commercial and light-industrial environments	X	X	
EN 61000-6-4:2007	Generic standards – Emission standard for industrial environments	X	X	X
IEC 62109-1:2003	Electrical safety of static inverters and charge controllers for use in photovoltaic (PV) power systems	X	X	X

Konstanz, 21.03.2011

Place Date Thomas Hauser  
PDM Solar Inverter

Presently applicable edition can be obtained upon request.