



**Bureau Veritas Consumer
Products Services
Germany GmbH**

Businesspark A96
86842 Türkheim
Germany
+ 49 (0) 40 740 41 - 0
cps-tuerkheim@de.bureauveritas.com

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: PT33K IP42 (Indoor)
PT33K IP54 (Outdoor)
PT30K IP42 (Indoor)
PT30K IP54 (Outdoor)

Use in accordance with regulations:

Automatic disconnection device with three-phase mains surveillance 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:

Technical Regulation TF 3.2.1 for electricity-generation plants of 11kW or lower and EN 5038:2007 and Exemption from requirements in technical regulation TF 3.2.1, dated 20. January 2011. The anti islanding protection fulfils the requirements of DIN V VDE V 0126-1-1 (VDE V 0126-1-1): 2006-02.

The units PT33K IP42, PT33K IP54, PT30K IP42, PT30K IP54 are rated above 11kW but fulfil the above mentioned requirements.

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: 08TH0031-TF1.2.3
Certificate number: U11-444
Date of issue: 2011-06-10 **Valid until:** 2014-03-21

Achim Hänchen



**Bureau Veritas Consumer
Products Services
Germany GmbH**

Businesspark A96
86842 Türkheim
Tyskland
+ 49 (0) 40 740 41 - 0
cps-tuerkheim@de.bureauveritas.com

Overensstemmelsescertifikat

Ansøger: Sunways AG
Photovoltaic Technology
Macairestraße 3 – 5
78467 Konstanz
Tyskland

Produkt: Automatisk frakoblingsanordning mellem en generator og det offentlige lavspændingsnet

Model: PT33K IP42 (Indoor)
PT33K IP54 (Outdoor)
PT30K IP42 (Indoor)
PT30K IP54 (Outdoor)

Anvendelse i overensstemmelse med gældende regler:

Automatisk frakoblingsanordning med trefaset overvågning af lysnettet til solcellesystemer med en trefaset parallelkobling via en vekselretter i det offentlige strømforsyningsnet. Den automatiske frakoblingsanordning er en integreret del af den førnævnte vekselretter. Den fungerer som en erstatning for frakoblingsanordningen med isolerende funktion, som distributionsnetværket til enhver tid har adgang til.

Gældende regler og standarder:

Teknisk forskrift TF 3.2.1 for elproducerende anlæg på 11 kW eller derunder og EN 5038:2007 samt Undtagelse for kravene i den tekniske forskrift TF 3.2.1 af 20. januar 2011. Anti-islanding beskyttelse (beskyttelse mod ø-drift) opfylder kravene i DIN V VDE V 0126-1-1 (VDE V 0126-1-1): 2006-02.

Enhederne PT33K IP42, PT33K IP54, PT30K IP42, PT30K IP54 er vurderet til over 11 kW men opfylder de ovennævnte krav.

Sikkerhedskonceptet i det førnævnte repræsentative produkt svarer på udstedelsestidspunktet af dette certifikat til de gældende sikkerhedsspecifikationer for den angivne brug i henhold til reglerne.

Rapportnummer: 08TH0031-TF1.2.3
Cetifikatnummer: U11-443
Udstedelsesdato: 2011-06-10 **Gyldigt indtil:** 2014-03-21

Achim Hänchen

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.