



Danfoss Solar Inverters A/S
Power Electronics Division

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Declaration of Conformity - Plants Greater than 30 kVA

This Declaration of Conformity has validity only while exclusively using the herein mentioned inverters at the same PCC (Point of Common Connection) as described and according to the guideline mentioned below.

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declares on our responsibility that the below product line

TLX 10k	TLX+ 10k
TLX 12.5k	TLX+ 12.5k
TLX 15k	TLX+ 15k

according to DIN VDE 0126-1-1, has a certified "Einrichtung zur Netzüberwachung mit jeweils zugeordnetem Schaltorgan in Reihe" (ENS) at its disposal. This ENS is realised as three-phase voltage and frequency monitoring and complies with the criteria of the VDEW Guideline "Eigenzeugungsanlagen am Niederspannungsnetz" (Edition 2004, sub-section 2.4.2). The three-phase voltage and frequency monitoring affects the integrated and redundant AC disconnection switch of the inverter (sub-section 2.3) at all poles. Thus the objectives of protection (sub-section 2.1.2) of the VDEW Guideline are met for inverters in PV power plants that are greater than 30 kVA. The requirements of the VDEW Guideline (sub-section 2.4.2.1) regarding the security of all safety-relevant settings are ensured by an access code. All other sections of the above-mentioned guideline will not be affected by this Declaration of Conformity.

VDEW Guideline (requirements described in sub-section 2.4.2)		Factory settings (VDE 0126-1-1)
Feature	Setting Range	Factory settings with selected country: GERMANY
Drop of Voltage Protection (measured Phase to Neutral)	1.00 to 0.70 U_N	184 V (0.8 U_N)
Increase of Voltage Protection (measured Phase to Neutral)	1.00 to 1.15 U_N	264.5 V (1.15 U_N) Monitoring of 10-Minute Average (1.1 U_N)
Drop of Frequency Protection	50 to 47 Hz	47.5 Hz
Increase of Frequency Protection	50 to 52 Hz	50.2 Hz

Table 1.1: VDEW requirements (2.4.2) and VDE 0126-1-1 standard settings.

Note: ✍

This Declaration of Conformity has to be kept in protected form at the PCC (e.g. laminated, in glued clear film or similar) and it must be secured at the chosen location to avoid loss of information (for example by using glue, chain or similar) .

Date	Approved by
2010-08-25	 Henrik Raunkjær Vice President Danfoss Solar Inverters A/S