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Certification body of BV CPS GmbH
Accredited according to EN 45011 -
ISO / IEC Guide 65

Certificate of compliance

Applicant: **ABB Oy Power Conversion**
Hiomotie 13
FI-00380 Helsinki
FINLAND

Product: **Grid-tied photovoltaic inverter**

Model: **PRO-33.0-TL-OUTD-400**
PRO-33.0-TL-OUTD-S-400
PRO-33.0-TL-OUTD-SX-400

Use in accordance with regulations:

Automatic disconnection device with three-phase mains surveillance in accordance with IEC 61727:2004 and IEC62116:2008 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 inverters.

Applied rules and standards:

IEC 61727:2004

Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 62116:2008

Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

IEEE 1547:2003, IEEE 1547.1:2005 (harmonics, d.c.-injection, voltage and frequency disconnection, reconnection)

IEEE Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems

AS 4777.3:2005 (grid protection requirements)

Grid connection of energy systems via inverters – inverter requirements and grid protection requirements

The following deviations for Thailand were applied:

Grid-Connected Inverter Regulation of Metropolitan Electricity Authority (MEA 2013):

under voltage limit (level 1): 200,0V

under voltage limit (level 2): 115,0V

over voltage limit (level 1): 240,0V

overvoltage limit (level 2): 310,0V

lower frequency limit: 49,0Hz

upper frequency limit: 51,0Hz

loss of main detection limit: 300ms

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

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Certification body



Dieter Zitzmann



Deutsche
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