



**BUREAU
VERITAS**

**Bureau Veritas
Consumer Products Services
Germany GmbH**

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

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

Certificate of compliance

Applicant: **ShenZhen JingFuYuan Tech. Co., Ltd**
1st.2nd.5th Floor, 12th Block,
Nangang Second Industrial Park, Nanshan District,
Shenzhen
P. R. China

Product: **Grid-tied photovoltaic inverter**

Model: **SUNTREE 10000TL**
SUNTREE 20000TL

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 and 1547.1:2005

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

AS 4777.2:2005 and AS 4777.3:2005

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

The following deviations for Thailand were applied according the grid-connected inverter regulations of the Provincial Electricity Authority (PEA 2013) for plants till 500kW:

under voltage limit (level 1): 198,0V
under voltage limit (level 2): 110,0V
over voltage limit (level 1): 242,0V
overvoltage limit (level 2): 264,0V
lower frequency limit: 47,9Hz
upper frequency limit: 51,1Hz
loss of main detection limit: 300ms

Metropolitan Electricity Authority (MEA 2013):

under voltage limit (level 1): 199,0V
under voltage limit (level 2): 114,0V
over voltage limit (level 1): 241,0V
overvoltage limit (level 2): 311,0V
lower frequency limit: 48,9Hz
upper frequency limit: 51,1Hz
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.

Report number: **13TH0452-IEC61727**

Certificate number: **U13-0757**

Date of issue: **2013-10-18**

Valid until: **2016-10-17**

Certification body



QUALITY



HEALTH
Dieter Zitzmann



ENVIRONMENT



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SOCIAL
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