Certificate of compliance

Applicant: **Schneider Electric Solar Inverters USA, Inc.**
250 South Vasco Road,
Livermore, California 94551
USA

Product: **Grid-tied photovoltaic inverter**

Model: **Conext RL 3000E, Conext RL 3000E-S,**
Conext RL 4000E, Conext RL 4000E-S

Use in accordance with regulations:

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

Electricity Grid System Connection Requirements B.E. 2551 of Provincial Electricity Authority (PEA 2013) with attachement for Proclamation No. 6.2 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:	*48,0Hz*
upper frequency limit:	*51,0Hz*
loss of main detection limit:	*300ms*

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.

Report number: **PV130910C14 (PEA)**
PV130910C14-1 (MEA)

Certificate number: **U16-0426**

Date of issue: **2016-07-28**

Certification body

Dieter Zitzmann

DAkkS Deutsche Akkreditierungsstelle D-ZE-12024-01-00

Certification body of Bureau Veritas Consumer Products Services Germany GmbH
Accredited according to DIN EN ISO/IEC 17065