

# **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 5000E, Conext RL 5000E-S

## Use in accordance with regulations:

Automatic disconnection device with single-phase mains surveillance in accordance with IEC 61727:2004 and IEC 62116:2008 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):198,0Vunder voltage limit (level 2):110,0Vover voltage limit (level 1):242,0Vovervoltage limit (level 2):264,0Vlower frequency limit:48,0Hzupper frequency limit:51,0Hzloss of main detection limit:300ms

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

under voltage limit (level 1):200,0Vunder voltage limit (level 2):115,0Vover voltage limit (level 1):240,0Vovervoltage limit (level 2):310,0Vlower frequency limit:49,0Hzupper frequency limit:51,0Hzloss 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:**

Certificate number: Date of issue: PVTH130910C15 (PEA) PVTH130910C15-1 (MEA) U16-0428 2016-07-28 Certification body



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