



# Certificate of compliance

**Applicant:** Alpha ESS Co., Ltd.  
JiuHua Road 888, Nantong High-Tech Industrial Development Zone,  
Nantong city, 226300, Jiangsu Province,  
P.R.China

**Product:** Hybrid photovoltaic inverter

**Model:** SMILE5-INV

## Use in accordance with regulations:

Automatic disconnection device with single-phase mains surveillance in accordance with NRS 097-2-1:2017 for photovoltaic systems with a single 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:

### NRS 097-2-1:2017 Edition 2

Grid interconnection of embedded generation, Part 2: Small-scale embedded generation, Section 1: Utility interface

Comply with:

Category A1: 0 – 13,8 kVA

Category A2: 13,8 kVA – 100 kVA

### IEC 61727:2004 Edition 2

Photovoltaic (PV) systems – Characteristics of the utility interface

### IEC 62116:2008 Edition 1 / IEC 62116:2014 Edition 2

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

### VDE AR-N 4105:2011-08 (A.6 General requirements, single-fault tolerance)

Power generation systems connected to the low-voltage distribution network

Note:

The inverter(s) are comply with IEC/EN 61000-6-1 "Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity standard for residential, commercial and light-industrial environments", IEC/EN 61000-6-2 Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments" and EN 50065-1:2011 "Signalling on low-voltage electrical installations in the frequency range 3kHz to 148,5kHz – Part1: General requirements, frequency bands and electromagnetic disturbances".

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**



Holger Schaffer

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