

**Applicant:** **Wuxi Solinteg Power Co., Ltd.**  
Building H1-1001, No. 6 Jingxian Road, Xinwu District, 214135 Wuxi, Jiangsu Province, China

**Product:** Hybrid Inverter (PV inverter with DC-coupled battery storage)

**Model(s):** **MHS-3K-30, MHS-3.6K-30, MHS-4.2K-30, MHS-5K-30, MHS-6K-30, MHS-8K-30**

**Use in accordance with regulations:**

Single-phase Hybrid Inverter (PV inverter with DC-coupled battery storage) corresponding to grid connection code listed above, with integrated protection relay and disconnection device for the connection to and parallel operation with low-voltage distribution networks.

Due to the symmetry requirement, the non-communicatively connected single-phase inverters must be limited to 4.6 kVA per phase for installation.

**Applied standards and guidelines:**

**NRS 097-2-1:2017 Edition 2.1**

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

- Category A1: 0 – 13,8 kVA
- Category A2: 13,8 kVA – 100 kVA
- Category A3: 100 kVA – 1 MVA

**IEC 61727:2004**

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

**IEC 62109-1:2010**

Safety of power converters for use in photovoltaic power systems - Part 1: General requirements

**IEC 62109-2:2011**

Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters

The inverters are comply with IEC/EN 61000-6-2 "Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments, IEC/EN 61000-6-3 Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial" and IEC/EN 61000-2-2 "Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems"

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements.

This verification does not imply assessment of the production of the product.

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