



**BUREAU  
VERITAS**

# Certificate of compliance

**Applicant:** **ALTENERGY POWER SYSTEM INC.**  
Building 2, No. 522, Yatai Road, Nanhu District, Jiaxing City, Zhejiang 314050,  
China

**Product:** **Photovoltaic (PV) inverter**

**Model:** **DS3, DS3-H, DS3-M, DS3-L, DS3-L-SPE, EZ1-H, EZ1-S, EZ1-M, EZ1-SPE, DS3-S**

Inverter for single-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

## Applied rules and standards:

### EN 50549-1:2019

Requirements for parallel connection of installations with distribution networks - Part 1: Connection to an LV distribution network - Production of installations up to and including Type B

- 4.4 Normal operating range
- 4.5 Immunity to disturbances
- 4.6 Active response to frequency deviation
- 4.7 Power response to voltage variations and voltage changes
- 4.8 EMC and power quality
- 4.9 Interface protection
- 4.10 Connection and starting to generate electrical power
- 4.11 Ceasing and reduction of active power on set point
- 4.13 Requirements regarding single fault tolerance of interface protection system and interface switch

### DIN VDE V 0124-100:2020 (5.5.2.1 Functional safety of network and system protection)

Grid integration of generator plants - Low-voltage - Test requirements for generator units to be connected to and operated in parallel with low-voltage distribution networks

### Commission Regulation (EU) 2016/631 of 14 April 2016

Establishing a network code on requirements for grid connection of generators (NC RFG).  
Type approval for generation units to use in Type A and Type B plants.

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:** ZEK-ESH-P21011146-R1 **Certification Program:** NSOP-0032-DEU-ZE-V01  
**Certificate number:** U23-0369 **Date of issue:** 2023-05-10

## Certification body



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

Testing laboratory accredited according to DIN EN ISO/IEC 17025

A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH