



**BUREAU
VERITAS**

Certificate of compliance

Applicant: **ALTENERGY POWER SYSTEM INC.**
No.1, Yatai Road, Jiaxing 314050,
Zhejiang Province
P.R. China

Product: **Photovoltaic (PV) inverter**

Model: **YC600, QS1, QS1200**

Use in accordance with regulations:

Automatic disconnection device with single-phase mains surveillance in accordance with DIN VDE V 0126-1-1/A1 VFR2019 (Protection of production installations connected to the public distribution network, Enedis-NOI-RES_13E, Version 7, 14/12/2018), 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 inverter. This serves as a replacement for the disconnection device with insulating function which the distribution network provider can access at any time.

Configuration of prevention measures

Galvanic isolation	d.c. polarity to earth	Prevention measures	Device is capable
Yes	No	Case 1 – PV field without polarity deliberately connected to earth and with galvanic isolation	No
Yes	Direct	Case 2 – PV field with polarity deliberately connected to earth and with galvanic isolation	No
Yes	Via resistor	Case 3 – PV field with polarity deliberately connected to earth and with galvanic isolation	Yes
No	No	Case 4 – PV field without polarity deliberately connected to earth and without galvanic isolation	No

Applied rules and standards:

UTE C15-712-1:2013-07, UTE C 15-712-1:2010-07, rectificatif 0:2010-09 et rectificatif 1:2012-02

Photovoltaic installations connected to the public distribution network

DIN VDE V 0126-1-1/A1:2012-02

Automatic disconnection device between a generator and the public low-voltage grid; Amendment 1.

Enedis-NOI-RES_13E:2018-12

Protection of production installations connected to the public distribution network

The safety concept of an aforementioned representative product corresponds at the time of issue of this certificate to the valid safety specifications for the specified use in accordance with regulations.

Report number: **ZEM-16OC1801FTSP-R1**
ZEM-18AP0918FCSHP-R1

Certification Program: **NSOP-0032-DEU-ZE-V01**

Certificate number: **U19-0668**

Date of issue: **2019-12-19**

Certification body



Holger Schaffer



Deutsche
Akkreditierungsstelle
D-ZE-12024-01-00

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

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



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Annex to Certificate of compliance Nr.: U19-0668

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UTE C15-712-1:2013-07, UTE C 15-712-1:2010-07, Corrigendum 0:2010-09 and Corrigendum 1:2012-02, DIN VDE V 0126-1-1/A1:2012-02, DIN V VDE V 0126-1-1:2006-02 with deviations according to "Decoupling protection for connection of distributed generation in MV and LV areas not interconnected, Technical Reference - SEI REF 04 V6"

* $184,00V < U_n < 255,3V$
 $46,0Hz < f < 52,0Hz$
Disconnection time $< 200ms$
Reconnection time $> 30s$

St Martin, St Barthelemy, St. Pierre and Miquelonles thresholds will be tailored to local characteristics.

UTE C15-712-1:2013-07, UTE C 15-712-1:2010-07, Corrigendum 0:2010-09 and Corrigendum 1:2012-02, DIN VDE V 0126-1-1/A1:2012-02, DIN V VDE V 0126-1-1:2006-02 with deviations according to "Contract for connection, access and operation (CAER) of a photovoltaic generation facility connected to the electricity Public Network"

* $195,5V < U_n < 264,5V$
 $55,0Hz < f < 62,5Hz$
Disconnection time $< 200ms$
Reconnection time $> 30s$