



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

**Product:** **3-Phase Microinverter**

**Model:** **QT2D, QT2D-EU QT2D-H, QT2D-H-EU**

**Intended use:**

Photovoltaic inverter in accordance with EN 50549-1 with three-phase parallel coupling to the distribution network. The automatic disconnection device is an integral part of the aforementioned inverter.

**Applied standards and guidelines:**

**SOP-9-1\_15 GCC Certification Program, 09/21**

Based on:

**EN 50549-1:2019**

**Requirements for generating plants to be connected in parallel with distribution networks Part 1:**  
Connection to a LV distribution network - Generating plants up to and including Type B

The generating plant(s) are also considered to be compliant with the relevant Articles of Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators (NC RfG), provided, that all settings as provided by the DSO and the responsible party are complied with.

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

The models are certified for power plant type A.

211224BW001-EG-EU-001

**Report No:**

Test report from Guangdong HuaChuang Technology Service Co., Ltd., A2LA ac-credited Cert #5200.02

**Certificate No:** 23-083-00

**Date of issue:** 2023-03-03

CERTIFICATE

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Certification Engineer





## Default interface protection settings:

Parameter	Trip value [ $U_n$ or Hz]		Trip time [s]	
	Setting	Measured	Time delay Setting	Measured operate + opening time
	L-N	L-N	L-N	L-N
Overvoltage threshold stage 2 [59>>]	264,5	263,6	0,2	0,127
Overvoltage threshold stage 1 [59>]	253,0	252,8	3,0	1,831
Overvoltage 10 min mean protection*	1,10	253	600	499
Undervoltage threshold stage 1 [27<]	195,5V	194,9	1,5	1,326
Undervoltage threshold stage 2 [27<<]	-	-	-	-
Overfrequency threshold stage 2 [81>>]	-	-	-	-
Overfrequency threshold stage 1 [81>]	52,00	51,99	0,5	0,451
Underfrequency threshold stage 1 [81<]	47,50	47,49	0,5	0,406
Underfrequency threshold stage 2 [81<<]	-	-	-	-

The products fulfill the following requirements according to EN 50549-1:2019:

Requirements:EN 50549-1:2019	Assessment / Remark
4.4 Normal operating range	P
4.5 Immunity to disturbances	P
4.6 Active response to frequency deviation	P
4.7 Power response to voltage variations and voltage changes	P
4.8 EMC and power quality	P
4.9 Interface protection	P
4.10 Connection and starting to generate electrical power	P
4.11 Ceasing and reduction of active power on set point	P
4.12 Remote information exchange	P
4.13 Requirements regarding single fault tolerance of interface protection system and interface switch	P