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Certificate of compliance

Applicant: AISWEI Technology Co., Ltd.
Room 905B, 757 Mengzi Road, Huangpu District, 200023 Shanghai
P.R.China

Product: Photovoltaic (PV) inverter

Model: ASW45K-LT-G3
ASW50K-LT-G3
ASW60K-LT-G3

Inverter for three-phase parallel connection to a MV distribution network.

Applied rules and standards:

EN 50549-2:2019

Requirements for generating plants to be connected in parallel with distribution networks - Part 2: Connection to a MV distribution network - Generating plants 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

TG3 Rev. 25:2018

Determination of the Electrical Characteristics of Power Generating Units and Systems, Storage Systems as well for their Components in Medium-, High- and Extra-High Voltage Grids

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

Note:

This certificate proves the conformity of a generating unit based on NC RFG. However, some requirements, such as frequency sensitive mode (FSM), reactive power capacity etc. can be applicable on the generating plant level, which assessment can be out of the scope of this certificate. Consequently, it is possible that the conformity assessment of a generating unit does not cover all aspects of the above-mentioned standardization documents, typically when a requirement is rather evaluated on a plant level.

At the time of issue of this certificate, the representative product listed above corresponds to the stated rules and standards.

Report number: PV2304WDG0064-2-R1 **Certification Program:** NSOP-0032-DEU-ZE-V01
Certificate number: U24-0080 **Date of issue:** 2024-02-29

Certification body



Domenik Köll
Head of Energy Systems



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



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Annex to the EN 50549-2 certificate of compliance No. U24-0080

Appendix

Extract from test report according to EN 50549-2 No. PV2304WDG0064-2-R1

Type Approval and declaration of compliance with the requirements of EN 50549-2 and Commission Regulation (EU) 2016/631 of 14 April 2016.

Manufacturer / applicant	AISWEI Technology Co., Ltd. Room 905B, 757 Mengzi Road, Huangpu District, 200023 Shanghai P.R.China
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Generator Type	Photovoltaic inverter
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	ASW45K-LT-G3	ASW50K-LT-G3	ASW60K-LT-G3	--
Photovoltaic (DC)				
DC voltage range [V]	1100			--
Max. DC voltage [V]	200-1000			--
Max. input DC current [A]	40,0/32,0/32,0/40,0	40,0/32,0/32,0/40,0/32,0	40,0/32,0/32,0/40,0/32,0	--
Connection (AC)				
Output AC voltage [V]	3L/N/PE, 230V, 50Hz			--
Max. AC current [A]	75,2	83,6	95,3	--
Active Power [kW]	45	50	60	--
Max. apparent power [kVA]	45	50	60	--

Firmware version	Main DSP Software version: V610-03030-01; Slave DSP Software version: V610-60015-00; Safety package (Flash) version: V610-11021-01
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Description of the structure of the power generation unit

The power generation unit is equipped with a PV/DC and line-side EMC filter. The power generation unit has no galvanic isolation between DC input and AC output. Output switch-off is performed with single-fault tolerance based on the inverter bridge and two series-connected relays in each line. This enables a safe disconnection of the power generation unit from the network in case of error.

Note:

In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration.

The above stated generators are tested according to the requirements in the EN 50549-2:2019 Commission Regulation (EU) 2016/631 of 14 April 2016. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.