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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

The device is designed to work as a generation unit of the type: **A and B**

Inverter for three-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.\*

\* cl. 4.5 only zero-current mode was tested

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:** PV2304WDG0064-1-R1      **Certification Program:** NSOP-0032-DEU-ZE-V01  
**Certificate number:** U24-0079      **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 50549-1 certificate of compliance No. U24-0079

### Appendix

Extract from test report according to EN 50549-1

No. PV2304WDG0064-1-R1

Type Approval and declaration of compliance with the requirements of EN 50549-1 and Commission Regulation (EU) 2016/631 of 14 April 2016

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

<b>Firmware version</b>	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 and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.

#### Note:

The settings of the interface protection are password protected adjustable.

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 50549-1:2019 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.