Certificate of compliance

Applicant: **AISWEI Technology Co., Ltd.**
Room 302-1, Unit 015, No. 468 Zhongshan South First Road, Huangpu District, Shanghai
China

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

Model: **ASW015K-TH,**
ASW020K-TH,
ASW025K-TH,
ASW29.9K-TH,
ASW030K-TH,
ASW015K-TH-N,
ASW020K-TH-N,
ASW025K-TH-N,
ASW29.9K-TH-N,
ASW030K-TH-N

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/A1:2023
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
4.12 Remote information exchange
4.13 Requirements regarding single fault tolerance of interface protection system and interface switch

EN 50549-10:2022
Requirements for generating plants to be connected in parallel with distribution networks - Part 10: Tests for conformity assessment of generating units

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.

* 4.5 Immunity to disturbances, only limited grid support mode was tested (zero current mode) for FRT function.

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: **PV2407WDG0207-1**
Certificate number: **U25-0301**
Certification Program: **NSOP-0032-DEU-ZE-V10**
Date of issue: **2025-03-28**

Certification body
Domenik Koll
Head of Energy Systems Germany

Accreditation
DAkkS Deutsche Akkreditierungsstelle D-ZE-12024-01-00

Type Approval and declaration of compliance with the requirements of EN 50549-1 and Commission Regulation (EU) 2016/631 of 14 April 2016				
Manufacturer	**AISWEI Technology Co., Ltd.** Room 302-1, Unit 015, No. 468 Zhongshan South First Road, Huangpu District, Shanghai **China**			
Product type	**Photovoltaic (PV) and battery inverter**			
Static converter model	**ASW015K-TH, ASW015K-TH-N**	**ASW020K-TH, ASW020K-TH-N**	**ASW025K-TH, ASW025K-TH-N**	**ASW29.9K-TH, ASW29.9K-TH-N**
Input DC (photovoltaic)				
MPP voltage range [V]	150-950	150-950	150-950	150-950
Max. input voltage [V]	1000	1000	1000	1000
Max. input current per MPPT [A]	20,0*4	20,0*4	40,0*4	40,0*4
Input DC (battery)				
DC voltage range [V]	120-800	120-800	120-800	120-800
Max. charge / discharge current [A]	50,0	50,0	50,0*2	50,0*2
Max. charge / discharge power [kW]	30,0/15,0	40,0/20,0	50,0/25,0	59,8/29,9
Output AC				
Rated AC voltage [V]	3L/N/PE, 230/400	3L/N/PE, 230/400	3L/N/PE, 230/400	3L/N/PE, 230/400
Max. output current [A]	23,9	31,9	39,8	47,6
Nom. converter output (P_{NINV}) [W]	15,0	20,0	25,0	29,9
Rated apparent power [VA]	15,0	20,0	25,0	29,9
EPS port				
Rated AC voltage [V]	3L/N/PE, 230/400	3L/N/PE, 230/400	3L/N/PE, 230/400	3L/N/PE, 230/400
Rated frequency [Hz]	50,0	50,0	50,0	50,0
Max. output current [A]	23,9	31,9	39,8	47,6
Rated active power [kW]	15,0	20,0	25,0	29,9
Rated apparent power [kVA]	15,0	20,0	25,0	29,9

Static converter model	**ASW030K-TH, ASW030K-TH-N**	**--**	**--**	**--**
Input DC (photovoltaic)				
MPP voltage range [V]	150-950	--	--	--
Max. input voltage [V]	1000	--	--	--
Max. input current per MPPT [A]	40,0*4	--	--	--
Input DC (battery)				
DC voltage range [V]	120-800	--	--	--
Max. DC voltage [V]	50,0*2	--	--	--
Max. DC current per DC input [A]	60,0/30,0	--	--	--
Output AC				
Rated AC voltage [V]	3L/N/PE, 230/400	--	--	--
Max. output current [A]	47,8	--	--	--
Nom. converter output (P_{NINV}) [W]	30,0	--	--	--
Rated apparent power [VA]	30,0	--	--	--
EPS port				
Rated AC voltage [V]	3L/N/PE, 230/400	--	--	--
Rated frequency [Hz]	50,0	--	--	--
Max. output current [A]	47,8	--	--	--
Rated active power [kW]	30,0	--	--	--
Rated apparent power [kVA]	30,0	--	--	--

Interface protection system and interface switch (Network and system protection "NS-protection")	
Type of protection	Integrated NS-protection
Assigned to generation unit type	ASW015K-TH, ASW020K-TH, ASW025K-TH, ASW29.9K-TH, ASW030K-TH, ASW015K-TH-N, ASW020K-TH-N, ASW025K-TH-N, ASW29.9K-TH-N, ASW030K-TH-N
Integrated interface switch	Type of switching equipment 1: Relay (Model HF167F) Type of switching equipment 2: Relay (Model HF167F)
	Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.
Firmware version	Safety: V610-11027-02 DSP: V610-05003-01

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.