Certificate of compliance

Applicant:	**AISWEI Technology (Shanghai) Co.,Ltd** Room 905B, 757 Mengzi Road, Huangpu District, 200023 Shanghai **P.R.China**
Product:	**Photovoltaic (PV) inverter**
Model:	**ASW1000-S-G2, ASW1500-S-G2, ASW2000-S-G2, ASW2500-S-G2, ASW3000-S-G2, ASW3680-S-G2, ASW4000-S-G2, ASW5000-S-G2, ASW6000-S-G2**

Inverter for single-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 50549-1:2019-02, NBN EN 50549-1:2019-02
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

C10/11:2019-09
Specific technical requirements for generator in parallel operation with the distribution network

DIN V VDE V 0126-1-1:2006 (4.1 Functional safety)
Automatic disconnection device between a generator and the public low-voltage grid

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.

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

Report number:	**PVBE2207WDG0013-1**	**Certification program:**	**NSOP-0032-DEU-ZE-V01**
Certificate number:	**U22-0523**	**Date of issue:**	**2022-09-06**

Certification body

Domenik Koll

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

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

Testing laboratory accredited according to DIN EN ISO/IEC 17025

Appendix

Extract from test report according to EN 50549-1 / C10/11 **Nr. PVBE2207WDG0013-1**

Type Approval and declaration of compliance with the requirements of EN 50549-1, Commission Regulation (EU) 2016/631 of 14 April 2016 and C10/11 for Belgium				
Manufacturer / applicant	**AISWEI Technology (Shanghai) Co.,Ltd** Room 905B, 757 Mengzi Road, Huangpu District, 200023 Shanghai **P.R.China**			
Micro-generator Type	Photovoltaic inverter			
	ASW1000-S-G2	**ASW1500-S-G2**	**ASW2000-S-G2**	**ASW2500-S-G2**
Max. input DC voltage [V]	Max.600V			
Input DC voltage range [V]	60-560V			
Input DC current [A]	Max.16			
Output AC voltage [V]	L/N/PE ~ 230V, 50Hz			
Output AC current [A]	Max.5,0	Max.7,5	Max.10,0	Max.12,5
Nominal Output power [VA]	1000	1500	2000	2500
Maximum Output power [VA]	1000	1500	2000	2500
	ASW3000-S-G2	**ASW3680-S-G2**	**ASW4000-S-G2**	**ASW5000-S-G2**
MPP DC voltage range [V]	Max.600V			
Input DC voltage range [V]	60-560V			
Input DC current [A]	Max. 2*16			
Output AC voltage [V]	L/N/PE ~ 230V, 50Hz			
Output AC current [A]	Max.15,0	Max.16,0	Max.20,0	Max.25,0
Nominal Output power [VA]	3000	3680	4000	5000
Maximum Output power [VA]	3000	3680	4000	5000
	ASW6000-S-G2	--	--	--
MPP DC voltage range [V]	Max.600V	--	--	--
Input DC voltage range [V]	60-560V	--	--	--
Input DC current [A]	Max. 2*16	--	--	--
Output AC voltage [V]	L/N/PE ~ 230V, 50Hz	--	--	--
Output AC current [A]	Max.30,0	--	--	--
Nominal Output power [VA]	6000	--	--	--
Maximum Output power [VA]	6000	--	--	--
Firmware version	Main DSP Software version: V610-01055-02 Slave DSP Software version: V610-01056-02			
Description of the structure of the power generation unit: The power generation unit is equipped with a PV 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 line and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.				

Annex to the EN 50549-1 / C10/11 certificate of compliance No. U22-0523

Appendix

Extract from test report according to EN 50549-1 / C10/11 **Nr. PVBE2207WDG0013-1**

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 and C10/11 for Belgium. 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.