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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: ASW3K-LT-G2 Pro
ASW4K-LT-G2 Pro
ASW5K-LT-G2 Pro
ASW6K-LT-G2 Pro
ASW8K-LT-G2 Pro
ASW10K-LT-G2 Pro
ASW12K-LT-G2 Pro
ASW13K-LT-G2 Pro
ASW15K-LT-G2 Pro
ASW17K-LT-G2 Pro
ASW20K-LT-G2 Pro

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 50549-1:2019-02, 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

C10/11:2021-03

Specific technical requirements for generator in parallel operation with the distribution network

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 plants.

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

Report number: PV2203WDG0348-1

Certification program: NSOP-0032-DEU-ZE-V01

Certificate number: U22-0373

Date of issue: 2022-06-16

Certification body



Alf Assenkamp



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

A partial representation of the certificate requires the written permission of Bureau Veritas Consumer Products Services Germany GmbH

BUREAU VERITAS

Consumer Products Services Germany GmbH

Oehlecker Ring 40, 22419 Hamburg, Germany

Tel: +49 40 74041-0

cps-hamburg@de.bureauveritas.com

www.bureauveritas.de/cps



Annex to the EN 50549-1 / C10/11 certificate of compliance No. U22-0373

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Appendix
 Extract from test report according to EN 50549-1 / C10/11 Nr. PV2203WDG0348-1

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			
	ASW3K-LT-G2 Pro	ASW4K-LT-G2 Pro	ASW5K-LT-G2 Pro	ASW6K-LT-G2 Pro
MPP DC voltage range [V]	150-1000	150-1000	150-1000	150-1000
Max. Input DC voltage [V]	1100	1100	1100	1100
Input DC current [A]	16,0 / 16,0	16,0 / 16,0	16,0 / 16,0	16,0 / 16,0
Output AC voltage [V]	3/N/PE ~ 230/400, 50Hz	3/N/PE ~ 230/400, 50Hz	3/N/PE ~ 230/400, 50Hz	3/N/PE ~ 230/400, 50Hz
Output AC current [A]	4,8	6,4	8,0	9,6
Output power [kW]	3,0	4,0	5,0	6,0
	ASW8K-LT-G2 Pro	ASW10K-LT-G2 Pro	ASW12K-LT-G2 Pro	ASW13K-LT-G2 Pro
MPP DC voltage range [V]	150-1000	150-1000	150-1000	150-1000
Max. Input DC voltage [V]	1100	1100	1100	1100
Input DC current [A]	20,0 / 16,0	20,0 / 16,0	32,0 / 20,0	32,0 / 20,0
Output AC voltage [V]	3/N/PE ~ 230/400, 50Hz	3/N/PE ~ 230/400, 50Hz	3/N/PE ~ 230/400, 50Hz	3/N/PE ~ 230/400, 50Hz
Output AC current [A]	12,8	16,0	19,0	20,7
Output power [kW]	8,0	10,0	12,0	13,0
	ASW15K-LT-G2 Pro	ASW17K-LT-G2 Pro	ASW20K-LT-G2 Pro	--
MPP DC voltage range [V]	150-1000	150-1000	150-1000	--
Max. Input DC voltage [V]	1100	1100	1100	--
Input DC current [A]	32,0 / 20,0	32,0 / 32,0	32,0 / 32,0	--
Output AC voltage [V]	3/N/PE ~ 230/400, 50Hz	3/N/PE ~ 230/400, 50Hz	3/N/PE ~ 230/400, 50Hz	--
Output AC current [A]	24,0	27,1	31,9	--
Output power [kW]	15,0	17,0	20,0	--
Firmware version	Main DSP: V610-03043-01, Slave DSP: V610-60009-00			



Appendix
Extract from test report according to EN 50549-1 / C10/11 Nr. PV2203WDG0348-1

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 (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 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.