



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: ASW6000-S
ASW8000-S
ASW10000-S

Use in accordance with regulations:

Automatic disconnection device with single-phase mains surveillance in accordance with Engineering Recommendation G99/1 for photovoltaic systems with a single-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverter. This serves as a replacement for the disconnection device with isolating function, which can be accessed the distribution network provider at any time.

Applied rules and standards:

Engineering Recommendation G99/1-9:2022

Requirements for the connection of generation equipment in parallel with public distribution networks

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

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: PVGB2308WDG0099-1

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

Certificate number: U23-0762

Date of issue: 2023-09-04

Certification body



Alf Assenkamp

Certification body 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 approval of Bureau Veritas Consumer Products Services Germany GmbH

Appendix A2-3 Compliance Verification Report for Inverter Connected Power Generating Modules

Extract from test report according to the Engineering Recommendation G99

Nr. PVGB2308WDG0099-1

Type Approval and declaration of compliance with the requirements of Engineering Recommendation G99.

PGM Technology:	Photovoltaic (PV) inverter		
Manufacturer / applicant:	AISWEI Technology Co., Ltd.		
Address:	Room 905B, 757 Mengzi Road, Huangpu District, 200023 Shanghai, P.R.China		
Tel	--	Fax:	--
Email:	--	Website:	--

Rated values	ASW6000-S	ASW8000-S	ASW10000-S	--
Max. input PV voltage [V]	600,0	600,0	600,0	--
Input PV voltage range [V]	80-560	80-560	80-560	--
Max. Input PV current [A]	3x16,0	3x16,0	3x16,0	--
Output AC voltage [V]	L/N/PE, 220/230V, 50/60Hz			--
Nominal Output AC current [A]	26,1	34,8	43,5	--
Max. Output AC current [A]	30,0	40,0	50,0	--
Nominal Output power [kW]	6,0	8,0	10,0	--
Max. Output power [kVA]	6,0	8,0	10,0	--

Firmware version	Main DSP Software version: V610-01053-07; Slave DSP Software version: V610-60014-00; Safety package (Flash) version: V610-10009-07.
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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 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.

Differences between Generating Units:

The models ASW6000-S, ASW8000-S and ASW10000-S are almost identical in hardware and software, expect that the power output is derated by software

The above stated Generating Units are tested according to the requirements in the Engineering Recommendation G99/1. 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 of the Engineering Recommendation G99/1.

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Recommendation G99

Nr. PVGB2308WDG0099-1

Operating Range.	
Test 1	Voltage = 85% of nominal (195,5V) Frequency = 47Hz Power Factor = 1 Period of test 20 s
Connection:	Always connected
Limit:	Always connected
Test 2	Voltage = 85% of nominal (195,5V) Frequency = 47,5Hz Power Factor = 1 Period of test 90 minutes
Connection:	Always connected
Limit:	Always connected
Test 3	Voltage = 110% of nominal (253V) Frequency = 51,5Hz Power Factor = 1 Period of test 90 minutes
Connection:	Always connected
Limit:	Always connected
Test 4	Voltage = 110% of nominal (253V) Frequency = 52,0Hz Power Factor = 1 Period of test 15 minutes
Connection:	Always connected
Limit:	Always connected
Test 5	Voltage = 100% of nominal (230 V) Frequency = 50,0 Hz Power Factor = 1 Period of test 90 minutes
Connection:	Always connected
Limit:	Always connected
Test 6	Confirm that the Power Generating Module is capable of staying connected to the Distribution Network and operate at rates of change of frequency up to 1 Hzs-1 as measured over a period of 500ms. Note that this is not expected to be demonstrated on site.
Connection:	Always connected
Limit:	Always connected

Appendix A2-3 Compliance Verification Report for Inverter Connected Power Generating Modules

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Protection. Voltage tests.

Phase 1

Function	Setting		Trip test		No trip test	
	Voltage [V]	Time delay [s]	Voltage [V]	Time delay [s]	Voltage / time	Confirm no trip
U/V	184	2,5	184,2	2,547	188V / 5,0s	No trip
					180V / 2,45s	No trip
O/V stage 1	262,2	1,0	261,9	1,030	258,2V 5,0s	No trip
O/V stage 2	273,7	0,5	273,8	0,529	269,7V 0,95s	No trip
					277,7V 0,45s	No trip

Note. For Voltage tests the Voltage required to trip is the setting $\pm 3,45V$. The time delay can be measured at a larger deviation than the minimum required to operate the protection. The No trip tests need to be carried out at the setting $\pm 4V$ and for the relevant times as shown in the table above to ensure that the protection will not trip in error.

Protection. Frequency tests.

Function	Setting		Trip test		No trip test	
	Frequency [Hz]	Time delay [s]	Frequency [Hz]	Time delay [s]	Frequency / time	Confirm no trip
U/F stage 1	47,5	20	47,50	20,088	47,7Hz / 30s	No trip
U/F stage 2	47	0,5	47,00	0,545	47,2Hz / 19,5s	No trip
					46,8Hz / 0,45s	No trip
O/F stage 2	52	0,5	52,00	0,536	51,8Hz / 120s	No trip
					52,2Hz / 0,45s	No trip

Note. For Frequency Trip tests the Frequency required to trip is the setting $\pm 0,1Hz$. In order to measure the time delay a larger deviation than the minimum required to operate the projection can be used. The "No-trip tests" need to be carried out at the setting $\pm 0,2Hz$ and for the relevant times as shown in the table above to ensure that the protection will not trip in error.

Appendix A2-3 Compliance Verification Report for Inverter Connected Power Generating Modules

Extract from test report according to the Engineering Recommendation G99

Nr. PVGB2308WDG0099-1

Protection. Loss of Mains.

Inverters tested according to BS EN 62116.

Balancing load on islanded network	33% of -5% Q Test 22	66% of -5% Q Test 12	100% of -5% P Test 5	33% of +5% Q Test 31	66% of +5% Q Test 21	100% of +5% P Test 10
Trip time. Ph1 fuse removed [ms]	217,0	258,1	325,0	241,8	257,0	333,7

Note. Trip time limit is 0,5s.

Protection. Re-connection timer.

Test should prove that the reconnection sequence starts in no less than 20 seconds for restoration of voltage and frequency to within the stage 1 settings of table 10.1.

Over Voltage (258,2 V)				
Time delay setting		Measured delay		
60s		68,6s		
Under Voltage (188,0 V)				
Time delay setting		Measured delay		
60s		69,2s		
Over Frequency (51,9 Hz)				
Time delay setting		Measured delay		
60s		69,0s		
Under Frequency (47,6 Hz)				
Time delay setting		Measured delay		
60s		70,0s		
	Checks on no reconnection when voltage or frequency is brought to just outside stage 1 limits of table 1.			
	At 266,2V	At 180,0V	At 47,4Hz	At 52,1Hz
Confirmation that the Generating Unit does not re-connect.	No reconnection	No reconnection	No reconnection	No reconnection

Protection. Frequency change, Stability test.

	Start Frequency [Hz]	Change	Test Duration	Confirm no trip
Positive Vector Shift	49,5	+50 degrees		No trip
Negative Vector Shift	50,5	-50 degrees		No trip
Positive Frequency drift	49,0 to 51,0	+0,95Hz/sec	2,1s	No trip
Negative Frequency drift	51,0 to 49,0	-0,95Hz/sec	2,1s	No trip

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Limited Frequency Sensitive Mode – Over Frequency

1-min mean value [Hz]:	a) 50,00	b) 50,45	c) 50,70	d) 51,15	e) 50,70	f) 50,45	g) 50,00
1. Measurement a) to g): Active power output > 80% P_n							
Frequency [Hz]:	50,00	50,45	50,70	51,15	50,70	50,45	50,00
P_{expected} [kW]:	--	9,90	9,40	8,50	9,40	9,90	--
P_{measured} [kW]:	10,07	9,98	9,48	8,57	9,48	9,98	10,06
2. Measurement a) to g): Active power output 40% and 60% P_n							
Frequency [Hz]:	50,00	50,45	50,70	51,15	50,70	50,45	50,00
P_{expected} [kW]:	--	4,90	4,40	3,50	4,40	4,90	--
P_{measured} [kW]:	5,04	4,95	4,46	3,55	4,45	4,95	10,07

Output Power with falling Frequency

Frequency setpoint [Hz]:	50,00	49,50	49,00	48,00	47,60	47,10
Frequency [Hz]:	50,00	49,50	49,00	48,00	47,60	47,10
Active power [kW]:	10,03	10,10	10,05	10,02	10,02	10,02
ΔP/P_{max} [%]:		1,00	0,50	0,20	0,20	0,20

Note.

For a CHP the test point a) at 50,00Hz is taken as Registered capacity (P_{max}) due to limited discrete operating points of the CHP's thermal process.

No Power reduction takes place for electronic inverter

Appendix A2-3 Compliance Verification Report for Inverter Connected Power Generating Modules

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Nr. PVGB2308WDG0099-1

Power Quality. Harmonics.

ASW6000-S

Phase 1						
Generating Unit rating per phase (rpp)			6,0 kW			
	At 45-55% of rated ouput 3,0 kW		100% of rated output 6,0 kW			
Harmonic	Measured Value (MV) in [A]	Measured Value (MV) in [%]	Measured Value (MV) in [A]	Measured Value (MV) in [%]	Limit in BS EN61000-3-12 in %	
					1 phase	3 phase
2nd	0,019	0,073	0,029	0,110	8%	8%
3rd	0,020	0,076	0,014	0,053	21,6%	N/A
4th	0,006	0,022	0,007	0,026	4%	4%
5th	0,005	0,018	0,005	0,020	10,7%	10,7%
6th	0,004	0,015	0,007	0,025	2,67%	2,67%
7th	0,009	0,035	0,012	0,047	7,2%	7,2%
8th	0,003	0,013	0,005	0,019	2%	2%
9th	0,042	0,160	0,044	0,169	3,8%	N/A
10th	0,005	0,018	0,007	0,028	1,6%	1,6%
11th	0,060	0,232	0,067	0,256	3,1%	3,1%
12th	0,006	0,024	0,012	0,047	1,33%	1,33%
13th	0,060	0,231	0,068	0,260	2%	2%
14th	0,007	0,028	0,012	0,048	N/A	N/A
15th	0,048	0,182	0,064	0,247	N/A	N/A
16th	0,005	0,018	0,010	0,037	N/A	N/A
17th	0,036	0,138	0,044	0,168	N/A	N/A
18th	0,004	0,017	0,007	0,025	N/A	N/A
19th	0,029	0,112	0,041	0,156	N/A	N/A
20th	0,005	0,020	0,007	0,028	N/A	N/A
21th	0,025	0,096	0,029	0,113	N/A	N/A
22th	0,003	0,010	0,005	0,018	N/A	N/A
23th	0,018	0,068	0,024	0,094	N/A	N/A
24th	0,003	0,010	0,005	0,018	N/A	N/A
25th	0,014	0,054	0,021	0,081	N/A	N/A
26th	0,002	0,007	0,004	0,016	N/A	N/A
27th	0,012	0,045	0,019	0,074	N/A	N/A
28th	0,002	0,006	0,004	0,015	N/A	N/A
29th	0,011	0,040	0,017	0,066	N/A	N/A
30th	0,002	0,007	0,004	0,013	N/A	N/A
31th	0,009	0,033	0,016	0,060	N/A	N/A
32th	0,002	0,006	0,003	0,011	N/A	N/A
33th	0,008	0,030	0,016	0,061	N/A	N/A
34th	0,001	0,005	0,003	0,010	N/A	N/A
35th	0,007	0,025	0,013	0,050	N/A	N/A
36th	0,001	0,006	0,003	0,010	N/A	N/A
37th	0,005	0,021	0,012	0,047	N/A	N/A
38th	0,001	0,006	0,002	0,008	N/A	N/A
39th	0,005	0,019	0,012	0,047	N/A	N/A
40th	0,001	0,004	0,002	0,008	N/A	N/A
THD ₄₀ [%]	--	0,489	--	0,603	23%	13%
PWHD [%]	--	1,301	--	1,839	23%	22%

Appendix A2-3 Compliance Verification Report for Inverter Connected Power Generating Modules

Extract from test report according to the Engineering Recommendation G99

Nr. PVGB2308WDG0099-1

Power Quality. Harmonics.

ASW8000-S

Phase 1

Generating Unit rating per phase (rpp)			8,0 kW			
	At 45-55% of rated output 4,0 kW		100% of rated output 8,0 kW			
Harmonic	Measured Value (MV) in [A]	Measured Value (MV) in [%]	Measured Value (MV) in [A]	Measured Value (MV) in [%]	Limit in BS EN61000-3-12 in %	
					1 phase	3 phase
2nd	0,025	0,073	0,033	0,095	8%	8%
3rd	0,016	0,046	0,015	0,044	21,6%	N/A
4th	0,006	0,019	0,010	0,030	4%	4%
5th	0,003	0,009	0,008	0,022	10,7%	10,7%
6th	0,006	0,016	0,010	0,028	2,67%	2,67%
7th	0,011	0,031	0,013	0,039	7,2%	7,2%
8th	0,005	0,015	0,007	0,019	2%	2%
9th	0,035	0,101	0,051	0,147	3,8%	N/A
10th	0,009	0,025	0,013	0,037	1,6%	1,6%
11th	0,048	0,138	0,080	0,230	3,1%	3,1%
12th	0,013	0,036	0,019	0,056	1,33%	1,33%
13th	0,052	0,149	0,097	0,280	2%	2%
14th	0,010	0,029	0,022	0,063	N/A	N/A
15th	0,038	0,109	0,089	0,255	N/A	N/A
16th	0,008	0,022	0,018	0,051	N/A	N/A
17th	0,040	0,115	0,074	0,212	N/A	N/A
18th	0,005	0,015	0,014	0,041	N/A	N/A
19th	0,026	0,075	0,055	0,159	N/A	N/A
20th	0,006	0,018	0,011	0,030	N/A	N/A
21th	0,025	0,071	0,042	0,120	N/A	N/A
22th	0,004	0,010	0,008	0,023	N/A	N/A
23th	0,018	0,052	0,035	0,102	N/A	N/A
24th	0,004	0,011	0,007	0,019	N/A	N/A
25th	0,013	0,038	0,033	0,096	N/A	N/A
26th	0,003	0,008	0,007	0,021	N/A	N/A
27th	0,011	0,032	0,029	0,082	N/A	N/A
28th	0,002	0,006	0,006	0,017	N/A	N/A
29th	0,010	0,029	0,027	0,078	N/A	N/A
30th	0,002	0,007	0,005	0,014	N/A	N/A
31th	0,009	0,025	0,026	0,074	N/A	N/A
32th	0,002	0,005	0,004	0,012	N/A	N/A
33th	0,008	0,024	0,023	0,065	N/A	N/A
34th	0,002	0,005	0,004	0,013	N/A	N/A
35th	0,007	0,021	0,021	0,061	N/A	N/A
36th	0,002	0,006	0,004	0,013	N/A	N/A
37th	0,006	0,017	0,022	0,062	N/A	N/A
38th	0,002	0,005	0,003	0,009	N/A	N/A
39th	0,010	0,029	0,031	0,089	N/A	N/A
40th	0,002	0,005	0,004	0,012	N/A	N/A
THD ₄₀ [%]	--	0,333	--	0,638	23%	13%
PWHD [%]	--	0,953	--	2,112	23%	22%

Appendix A2-3 Compliance Verification Report for Inverter Connected Power Generating Modules

Extract from test report according to the Engineering Recommendation G99

Nr. PVGB2308WDG0099-1

Power Quality. Harmonics.

ASW10000-S

Phase 1

Generating Unit rating per phase (rpp)			10,0 kW			
	At 45-55% of rated output 5,0 kW		100% of rated output 10,0 kW			
Harmonic	Measured Value (MV) in [A]	Measured Value (MV) in [%]	Measured Value (MV) in [A]	Measured Value (MV) in [%]	Limit in BS EN61000-3-12 in %	
					1 phase	3 phase
2nd	0,153	0,352	0,042	0,097	8%	8%
3rd	0,002	0,005	0,078	0,178	21,6%	N/A
4th	0,027	0,061	0,013	0,030	4%	4%
5th	0,019	0,043	0,024	0,055	10,7%	10,7%
6th	0,017	0,039	0,009	0,020	2,67%	2,67%
7th	0,016	0,037	0,029	0,067	7,2%	7,2%
8th	0,006	0,014	0,008	0,019	2%	2%
9th	0,060	0,139	0,047	0,107	3,8%	N/A
10th	0,007	0,016	0,013	0,031	1,6%	1,6%
11th	0,088	0,203	0,116	0,266	3,1%	3,1%
12th	0,009	0,020	0,015	0,035	1,33%	1,33%
13th	0,067	0,155	0,149	0,343	2%	2%
14th	0,008	0,017	0,017	0,038	N/A	N/A
15th	0,039	0,089	0,121	0,278	N/A	N/A
16th	0,006	0,014	0,015	0,035	N/A	N/A
17th	0,036	0,083	0,065	0,150	N/A	N/A
18th	0,006	0,015	0,011	0,025	N/A	N/A
19th	0,029	0,068	0,079	0,182	N/A	N/A
20th	0,004	0,010	0,008	0,019	N/A	N/A
21th	0,023	0,054	0,071	0,162	N/A	N/A
22th	0,005	0,012	0,010	0,023	N/A	N/A
23th	0,021	0,049	0,060	0,137	N/A	N/A
24th	0,004	0,009	0,008	0,019	N/A	N/A
25th	0,017	0,040	0,049	0,112	N/A	N/A
26th	0,004	0,008	0,007	0,016	N/A	N/A
27th	0,016	0,038	0,037	0,085	N/A	N/A
28th	0,003	0,007	0,007	0,015	N/A	N/A
29th	0,015	0,035	0,039	0,089	N/A	N/A
30th	0,003	0,006	0,006	0,014	N/A	N/A
31th	0,013	0,029	0,040	0,091	N/A	N/A
32th	0,003	0,006	0,005	0,012	N/A	N/A
33th	0,012	0,028	0,033	0,077	N/A	N/A
34th	0,003	0,006	0,005	0,012	N/A	N/A
35th	0,011	0,025	0,030	0,069	N/A	N/A
36th	0,002	0,005	0,004	0,010	N/A	N/A
37th	0,011	0,024	0,029	0,067	N/A	N/A
38th	0,002	0,004	0,004	0,009	N/A	N/A
39th	0,010	0,023	0,029	0,067	N/A	N/A
40th	0,002	0,004	0,004	0,009	N/A	N/A
THD ₄₀ [%]	--	0,503	--	0,711	23%	13%
PWHD [%]	--	0,835	--	2,231	23%	22%

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Recommendation G99

Nr. PVGB2308WDG0099-1

Power Quality. Power factor.

Output power	216,2V	230V	253V	Measured at three voltage levels and at full output. Voltage to be maintained within $\pm 1,5\%$ of the stated level during the test.
20%	1,000	1,000	0,999	
50%	1,000	1,000	1,000	
75%	1,000	1,000	1,000	
100%	1,000	1,000	1,000	
Limit	>0,95	>0,95	>0,95	

Power Quality. Voltage fluctuation and Flicker.

	Starting			Stopping			Running	
	dmax	dc	d(t)	dmax	dc	d(t)	Pst	Plt 2 hours
Measured values at test impedance	0,584	0,180	0,000	0,625	0,210	0,000	0,099	0,099
Measured values at standard impedance	0,584	0,180	0,000	0,625	0,210	0,000	0,099	0,099
Values for maximum impedance	0,584	0,180	0,000	0,625	0,210	0,000	0,099	0,099
Limits set under BS EN 61000-3-11	4%	3,3%	3,3% 500ms	4%	3,3%	3,3% 500ms	1,0	0,65
Test impedance	R	0,400	Ω	XI		0,150	Ω	
	Z	0,472	Ω					
Standard impedance	R	0,400	Ω	XI		0,150	Ω	
	Z	0,472	Ω					
Maximum impedance	R	0,400	Ω	XI		0,150	Ω	
	Zmax	0,472	Ω					

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Nr. PVGB2308WDG0099-1

Power Quality. DC injection.

ASW6000-S

Test level power [%]	10	55	100
Recorded value [mA]	9,82	35,43	59,02
Recorded value [%]	0,04	0,14	0,23
Limit [%]	0,25	0,25	0,25

Note. Informative measurement of DC-injection of each phase of the inverter and a limit of 0,25% per phase of the rated current per phase as pass criteria.

Sum of all Phases

Tests are carried out at three defined power levels $\pm 5\%$. At 230 V a 6,0 kW three phase Inverter has a current output of 26,09 A so DC limit is 65,22 mA. These tests is undertaken in accordance with Annex A.7.1.4.4.

The % DC injection ("as % of rated AC current" below) is calculated as follows:

% DC injection = Recorded DC value in Amps / Base current where the base current is the Registered Capacity (W) / V phase.
The % DC injection should not be greater than 0,25%.

Power Quality. DC injection.

ASW10000-S

Test level power [%]	10	55	100
Recorded value [mA]	74,27	84,85	88,30
Recorded value [%]	0,17	0,20	0,20
Limit [%]	0,25	0,25	0,25

Note. Informative measurement of DC-injection of each phase of the inverter and a limit of 0,25% per phase of the rated current per phase as pass criteria.

Sum of all Phases

Tests are carried out at three defined power levels $\pm 5\%$. At 230 V a 10,0 kW three phase Inverter has a current output of 43,48 A so DC limit is 108,70 mA. These tests is undertaken in accordance with Annex A.7.1.4.4.

The % DC injection ("as % of rated AC current" below) is calculated as follows:

% DC injection = Recorded DC value in Amps / Base current where the base current is the Registered Capacity (W) / V phase.
The % DC injection should not be greater than 0,25%.

Appendix A2-3 Compliance Verification Report for Inverter Connected Power Generating Modules

Extract from test report according to the Engineering
Recommendation G99

Nr. PVGB2308WDG0099-1

Fault level Contribution.

For a directly coupled SSEG			For a Inverter SSEG		
Parameter	Symbol	Value	Time after fault	Volts [V]	Amps [A]
Peak Short Circuit current	I_p	N/A	20ms	7,56	-4,62
Initial Value of aperiodic current	A	N/A	100ms	13,26	9,58
Initial symmetrical short-circuit current*	I_k	N/A	250ms	-7,03	-22,97
Decaying (aperiodic) component of short circuit current*	i_{DC}	N/A	500ms	12,82	26,16
Reactance/Resistance Ratio of source*	X/R	N/A	Time to Trip [s]	1,023	

For rotating machines and linear piston machines the test should produce a 0s – 2s plot of the short circuit current as seen at the Generating Unit terminals.

* Values for these parameters should be provided where the short circuit duration is sufficiently long to enable interpolation of the plot.

Self Monitoring – Solid state switching.	N/A
It has been verified that in the event of the solid state switching device failing to disconnect the Power Park Module, the voltage on the output side of the switching device is reduced to a value below 50 volts within 0,5 seconds.	N/A
Note. Unit do not provide solid state switching relays. In case the semiconductor bridge is switched off, then the voltage on the output drops to 0. In this case the relays on the output will also open (Functional safety of the internal automatic disconnection device according to VDE 0124-100.	

Cyber security	P
Confirm that the Manufacturer or Installer of the Micro-generator has provided a statement describing how the Micro-generator has been designed to comply with cyber security requirements, as detailed in 9.7.	Yes
Note. Different levels of access, all are password protected, only certain parameters can be changed on maintenance level. Manufacturer information provided, see test report.	

Wiring functional tests if required by para. 15.2.1	N/A
Confirm that the relevant test schedule is attached (tests to be undertaken at time of commissioning).	N/A
Note. The inverter was tested in a test laboratory. The correct wiring functional test in the field has to be done by the responsible person for the installation of the plant.	

Logic Interface (input port) Required by paragraph 11.1.3.1	P
Confirm that an input port is provided and can be used to reduce the Active Power output to zero	Yes
Note. Manufacturer information provided.	
Provide high level description of logic interface, e.g. details in 11.1.3.1 such as AC or DC signal	Yes
Note. Manufacturer information provided.	

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Nr. PVGB2308WDG0099-1

