

GLV231-04	Sigenergy	Sigen	
C10/26 - DECLARATION OF CONFORMITY for power-generating units GLV ed2.1.2 (12/2019)			
for the application of annex D "Technical basic requirements regarding the power-generation units" of the Synergrid prescription C10/11 ed2.1 (01/09/2019)			
The undersigned,	Manufacturer: SHANGHAI SIGEN NEW ENERGY TECHNOLOGY CO.,LTD. Address: No.175 Weizhan Rd.Lin-gang 201304 Shanghai PEOPLE'S REPUBLIC OF CHINA	Represented by: Yang Zhong Country: China email: yang.zhong@sigenergy.com Telephone: +31 0649383218	

Hereby declares that each production unit completed in the list in tab 'list of power-generating units' of this homologation application complies with the following conditions:

- The power-generating unit complies with the relevant requirements set out in annex D "Technical basic requirements regarding the power-generation units" of the Synergrid prescription C10/11 ed2.1 (01/09/2019).
- In order to substantiate this, a separate technical file has been submitted at least for each separate product series of the 'C10/26 list of power-generating units' of this homologation application. Each technical file shall be drawn up on the basis of a checklist Annex D, duly and correctly completed by the manufacturer, accompanied by all the required proof of conformity.
 - For technical requirements for which the required proof of conformity (column J in checklist annex D) is a declaration of honour by the manufacturer, the manufacturer declares by signing and dating this declaration of conformity the correctness of the information (conform / not conform / not applicable) provided by him or her in columns K, L and M of this checklist.
 - For technical requirements for which the required proof of conformity (column J in checklist Annex D) is a test report or a certificate, the necessary test reports and/or certificates are available * in the technical file:
 - Certificates have been issued by an EN 45011 (or ISO 17065:2012) certification body accredited for these materials.
 - Test reports have been established by an ISO 17025:2005 or ISO 17065:2012 laboratory accredited for these tests.
 - A list of the document references or the certificates of conformity referred to in the checklist Annex D is also available in the technical file.

Done at: Shanghai, China On: 31/12/2023 (stamp manufacturer & signature) Digitally signed, see last page	Homologated by Synergrid on: 28/02/2025 Stamp Synergrid & signature: Digitally signed, see last page
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*** Transition period till 01/05/2020** (see exceptions in chapter 3 of C10/11 ed 2.1 (01/09/2019)):

If at the time of submission of this homologation application it is not yet possible to submit all the necessary certificates and/or test reports (exception 3), or that the units do not yet have all the required characteristics (exceptions 1 and 2), a **temporary homologation** may be granted. All necessary certificates and/or test reports must be in the possession of Synergrid at the latest on 30/04/2020 in order to obtain a final homologation. If this is not the case, the temporary C10/26 homologation will be withdrawn.

POWER-GENERATING UNITS TO BE HOMOLOGATED FOR LIST C10/26 ACCORDING TO THE REQUIREMENTS OF ANNEX D OF THE TECHNICAL PRESCRIPTION C10/11 ed2.1 (01/09/2019)

2. C10/26 list with power-generating units in accordance with annex D of C10/11 ed2.1 (01/09/2019)

GLV231-04	Sigenergy	Sigen
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checklist ed 2.1.2 (12/2019)

1	2	3	4	5	6	7	8	9	10	11					12				13				14	15	
SYNERGRID reference number (GLVxxx-yy-zzzz)	BRAND NAME	Name of the product SERIES	REFERENCE of the model / type of the unit	FIRMWARE VERSION	ONLY for units (suitable for) energy storage: Name and reference of the power control system		POWER		1-phase or 3-phase	ADDITIONAL CHARACTERISTICS					LIMITATIONS				APPLICATION				Synergrid approval date		
					power control system type EnFluRi	other power control system	P _{ac,r} rated (active) power (W)	S _{max} maximum apparent power (VA)		D.3 integrated automatic separation system	D.4.1 (...) "RfG type B ready" = suitable for use in installation ≥ 1MW	D.6.2 power response to underfrequency (51.5 Hz - 52.5 Hz)	D.7.2 active power reduction P(U)	D.7.1 (...) compliant power control system provided (e.g. ENFluRi)	D.4.3 only homologated for connection to HV-network generating installations"	D.9.1 only homologated for use in module < 800W	D.7.1 (...) only homologated as a backup power system according to §2.1.1	Solar energy	Wind energy	CHP (combined heat & power)	Energy storage	Backup power system	Other	Temporary homology (expires on 01/05/2020)	Final homology
GLV231-04-0001	Sigenergy	Sigen PV Inverter	Sigen PV 50M1	V100R001			50.000	55.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0002	Sigenergy	Sigen PV Inverter	Sigen PV 60M1	V100R001			60.000	66.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0003	Sigenergy	Sigen PV Inverter	Sigen PV 80M1	V100R001			80.000	88.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0004	Sigenergy	Sigen PV Inverter	Sigen PV 100M1	V100R001			100.000	110.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0005	Sigenergy	Sigen PV Inverter	Sigen PV 110M1	V100R001			110.000	121.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0006	Sigenergy	Sigen PV Inverter	Sigen PV 125M1	V100R001			125.000	125.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0007	Sigenergy	Sigen PV Inverter	Sigen PV 50M2	V100R001			50.000	55.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0008	Sigenergy	Sigen PV Inverter	Sigen PV 60M2	V100R001			60.000	66.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0009	Sigenergy	Sigen PV Inverter	Sigen PV 80M2	V100R001			80.000	88.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0010	Sigenergy	Sigen PV Inverter	Sigen PV 100M2	V100R001			100.000	110.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0011	Sigenergy	Sigen PV Inverter	Sigen PV 110M2	V100R001			110.000	121.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0012	Sigenergy	Sigen PV Inverter	Sigen PV 125M2	V100R001			125.000	125.000	3-phase		X	X	X	X				X						28/02/2025	
GLV231-04-0013	Sigenergy	Sigen Hybrid Inverter	Sigen PV 50M1-HYA	V100R001	Sigen Sensor TPX-CH		50.000	55.000	3-phase		X	X	X	X	X			X			X			28/02/2025	
GLV231-04-0014	Sigenergy	Sigen Hybrid Inverter	Sigen PV 60M1-HYA	V100R001	Sigen Sensor TPX-CH		60.000	66.000	3-phase		X	X	X	X	X			X			X			28/02/2025	
GLV231-04-0015	Sigenergy	Sigen Hybrid Inverter	Sigen PV 80M1-HYA	V100R001	Sigen Sensor TPX-CH		80.000	88.000	3-phase		X	X	X	X	X			X			X			28/02/2025	
GLV231-04-0016	Sigenergy	Sigen Hybrid Inverter	Sigen PV 100M1-HYA	V100R001	Sigen Sensor TPX-CH		100.000	110.000	3-phase		X	X	X	X	X			X			X			28/02/2025	
GLV231-04-0017	Sigenergy	Sigen Hybrid Inverter	Sigen PV 110M1-HYA	V100R001	Sigen Sensor TPX-CH		110.000	121.000	3-phase		X	X	X	X	X			X			X			28/02/2025	
GLV231-04-0018	Sigenergy	Sigen Hybrid Inverter	Sigen PV 125M1-HYA	V100R001	Sigen Sensor TPX-CH		125.000	125.000	3-phase		X	X	X	X	X			X			X			28/02/2025	
GLV231-04-0019	Sigenergy	Sigen Hybrid Inverter	Sigen PV 50M1-HYB	V100R001	Sigen Sensor TPX-CH		50.000	55.000	3-phase		X	X	X	X	X			X			X	X		28/02/2025	

GLV231-04-0020	Sigenergy	Sigen Hybrid Inverter	Sigen PV 60M1-HYB	V100R001	Sigen Sensor TPX-CH		60.000	66.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0021	Sigenergy	Sigen Hybrid Inverter	Sigen PV 80M1-HYB	V100R001	Sigen Sensor TPX-CH		80.000	88.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0022	Sigenergy	Sigen Hybrid Inverter	Sigen PV 100M1-HYB	V100R001	Sigen Sensor TPX-CH		100.000	110.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0023	Sigenergy	Sigen Hybrid Inverter	Sigen PV 110M1-HYB	V100R001	Sigen Sensor TPX-CH		110.000	121.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0024	Sigenergy	Sigen Hybrid Inverter	Sigen PV 125M1-HYB	V100R001	Sigen Sensor TPX-CH		125.000	125.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0025	Sigenergy	Sigen Hybrid Inverter	Sigen PV 50M2-HYA	V100R001	Sigen Sensor TPX-CH		50.000	55.000	3-phase		X	X	X	X	X					X		X			28/02/2025
GLV231-04-0026	Sigenergy	Sigen Hybrid Inverter	Sigen PV 60M2-HYA	V100R001	Sigen Sensor TPX-CH		60.000	66.000	3-phase		X	X	X	X	X					X		X			28/02/2025
GLV231-04-0027	Sigenergy	Sigen Hybrid Inverter	Sigen PV 80M2-HYA	V100R001	Sigen Sensor TPX-CH		80.000	88.000	3-phase		X	X	X	X	X					X		X			28/02/2025
GLV231-04-0028	Sigenergy	Sigen Hybrid Inverter	Sigen PV 100M2-HYA	V100R001	Sigen Sensor TPX-CH		100.000	110.000	3-phase		X	X	X	X	X					X		X			28/02/2025
GLV231-04-0029	Sigenergy	Sigen Hybrid Inverter	Sigen PV 110M2-HYA	V100R001	Sigen Sensor TPX-CH		110.000	121.000	3-phase		X	X	X	X	X					X		X			28/02/2025
GLV231-04-0030	Sigenergy	Sigen Hybrid Inverter	Sigen PV 125M2-HYA	V100R001	Sigen Sensor TPX-CH		125.000	125.000	3-phase		X	X	X	X	X					X		X			28/02/2025
GLV231-04-0031	Sigenergy	Sigen Hybrid Inverter	Sigen PV 50M2-HYB	V100R001	Sigen Sensor TPX-CH		50.000	55.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0032	Sigenergy	Sigen Hybrid Inverter	Sigen PV 60M2-HYB	V100R001	Sigen Sensor TPX-CH		60.000	66.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0033	Sigenergy	Sigen Hybrid Inverter	Sigen PV 80M2-HYB	V100R001	Sigen Sensor TPX-CH		80.000	88.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0034	Sigenergy	Sigen Hybrid Inverter	Sigen PV 100M2-HYB	V100R001	Sigen Sensor TPX-CH		100.000	110.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0035	Sigenergy	Sigen Hybrid Inverter	Sigen PV 110M2-HYB	V100R001	Sigen Sensor TPX-CH		110.000	121.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0036	Sigenergy	Sigen Hybrid Inverter	Sigen PV 125M2-HYB	V100R001	Sigen Sensor TPX-CH		125.000	125.000	3-phase		X	X	X	X	X					X		X	X		28/02/2025
GLV231-04-0037	Sigenergy	Sigen Power Conversion System	Sigen PCS 50M1-A	V100R001	Sigen Sensor TPX-CH		50.000	55.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0038	Sigenergy	Sigen Power Conversion System	Sigen PCS 60M1-A	V100R001	Sigen Sensor TPX-CH		60.000	66.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0039	Sigenergy	Sigen Power Conversion System	Sigen PCS 80M1-A	V100R001	Sigen Sensor TPX-CH		80.000	88.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0040	Sigenergy	Sigen Power Conversion System	Sigen PCS 100M1-A	V100R001	Sigen Sensor TPX-CH		100.000	110.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0041	Sigenergy	Sigen Power Conversion System	Sigen PCS 110M1-A	V100R001	Sigen Sensor TPX-CH		110.000	121.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0042	Sigenergy	Sigen Power Conversion System	Sigen PCS 125M1-A	V100R001	Sigen Sensor TPX-CH		125.000	125.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0043	Sigenergy	Sigen Power Conversion System	Sigen PCS 50M2-A	V100R001	Sigen Sensor TPX-CH		50.000	55.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0044	Sigenergy	Sigen Power Conversion System	Sigen PCS 60M2-A	V100R001	Sigen Sensor TPX-CH		60.000	66.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0045	Sigenergy	Sigen Power Conversion System	Sigen PCS 80M2-A	V100R001	Sigen Sensor TPX-CH		80.000	88.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0046	Sigenergy	Sigen Power Conversion System	Sigen PCS 100M2-A	V100R001	Sigen Sensor TPX-CH		100.000	110.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0047	Sigenergy	Sigen Power Conversion System	Sigen PCS 110M2-A	V100R001	Sigen Sensor TPX-CH		110.000	121.000	3-phase		X	X	X	X	X							X	X		28/02/2025
GLV231-04-0048	Sigenergy	Sigen Power Conversion System	Sigen PCS 125M2-A	V100R001	Sigen Sensor TPX-CH		125.000	125.000	3-phase		X	X	X	X	X							X	X		28/02/2025

EXPLANATIONS FOR THE COMPLETION OF THE TABLE

Column	Title	Remarks
1	SYNERGRID reference number (GLVxxx-yy-zzzz)	In the case of a positive homologation, each C10/26-homologated power-generating unit is given a unique Synergrid reference number: xxx = unique reference or the manufacturer yy = serial number of manufacturer xxx's record xxx zzzz = unique unit reference for the manufacturer xxx <i>Note: "GLV" is the internal Synergrid-abbreviation for Declaration of Conformity, based on the Dutch word "Gelijkvormigheidsverklaring".</i>
2	Brand name	Brand name under which the unit is marketed on the Belgian market,
3	Name of the product series	Name of the product range. Note: For each separate product range (or each group of units with common characteristics) a separate checklist according to Appendix D is required (sheet 3) together with the corresponding conformity proof documents.
4	Reference of the model / type of the unit	Unique product name or reference. Units of the same product range must be unequivocally distinguished from each other through this name or reference.
5	Firmware version	Reference of the firmware version of the unit.
6	power control system type EnFluRi	This case is only applicable for units (suitable for) energy storage, provided with a power control system of <u>type EnFluRi</u> : Name and reference of the power control system of type EnFluRi, compliant to the requirements in C10/11 ed2.1 (01/09/2019) §4.1.7 and §7.11.2.1
7	other power control system	This case is only applicable for units (suitable for) energy storage, provided with a power control system of <u>another type than EnFluRi</u> : Name and reference of the power control system, compliant to the requirements in C10/11 ed2.1 (01/09/2019) §7.11.2.2
8	$P_{ac,r}$ rated (active) power (W)	Active (electrical) power in W at the terminals of the unit, as stated on the technical sheet / data sheet / brochure and nameplate. (For photovoltaic inverters: see also definition in §3.2.5 of IEC 62894 2016-11)
9	S_{max} - maximum apparent power (VA)	Maximum apparent (electrical) power at the terminals of the unit, as stated on the certificate / the test report / the technical sheet / data sheet / brochure.
10	1-phase or 3-phase	Indicate whether the unit is single- or three-phase. This characteristic refers to the unit itself, not to the nature of the connection to the distribution network to which the unit can be connected.
11	Additional characteristics	In these columns optional additional characteristics of the units are indicated, following the information in checklist annex D and the corresponding technical file. Put an "X" at each relevant additional characteristic. Note: Only units < 1 MW that are "type B ready" may be applied in an installation ≥ 1 MW (installation "type B" according to the European Network Code RfG). A unit < 1 MW is only "type B ready" if it complies with <u>all</u> optional properties ticked in column I of the checklist Annex D.
12	Limitations	These columns specify limitations of the units to their application in certain types of installations, in accordance with the information in the checklist in annex D and the corresponding technical file. Put an "X" to each relevant limitation.
13	Application	Indicate the applications for which the unit is suitable. Include an "X" with each application for which the unit can be used.
14	Synergrid approval date Temporary homologation (expires on 01/05/2020)	Date on which the submitted homologation file was approved by Synergrid for a limited period of time. - A temporary homologation is granted if the applicant invokes exceptions in chapter 3 of C10/11 ed2.1 (01/09/2019) and has not yet submitted all the test reports required for a definitive homologation with his homologation application (exception 3), or if the units do not yet have all the required properties (exceptions 1 and 2). - The expiry date for a temporary homologation is 01/05/2020 - see conditions in chapter 3 of C10/11 ed.2.1 (01/09/2019).
15	Synergrid approval date Final homologation	Date on which the submitted homologation file was definitely approved by Synergrid. - A final approval will be granted as soon as Synergrid has a fully compliant homologation dossier. - A final homologation only remains valid under the following conditions: - No changes that have an influence on the initial approval are made to (the production of) the units. - There is no new edition of prescription C10/11. - The validity date of the test reports in the technical file submitted for approval has not been exceeded. See also the general Synergrid procedure S1/01 for homologation of material, which is applicable. (1)

[\(1\) - S1/01 Technical specification: procedure for application for homologation and renewal of homologation of materials](#)

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"By my signature I confirm all dates and content in this document."

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