GLV231-02	Sigenergy	Sigen Energy Controller, Sigen Storage Controller, Sigen Hybrid Inverter, Sigen PV Inverter

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. No.175 Weizhan Rd.Lin-gang 201304	Represented by:	Yang Zhong
	Address:	Shanghai PEOPLE'S REPUBLIC OF CHINA	Country:	China
			email:	yang.zhong@sigenergy.com
			Telephone:	+31 0649383218

the following conditions:

1. 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).
2. 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.
   2.1 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.
   2.2. 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.

   file.

FINAL HOMOLOGATION

Done (Shanghai, China (location) On: 2023/4/11 (date) (stamp Provided by the attachment 1 C10_GLV Signed	12/04/2024 Homologated by Synergrid on: Stamp Synergrid & signature: SYNERGRID a.s.b.l.-v.z.w. Galerie Ravensteingalerij 4/2 BE-1000 Bruxelles/Brussel T.V.A./B.T.W. - T.V.A. 0402.956.091

*** 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

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)

GLV231-02	Sigenergy	Sigen Energy Controller, Sigen Storage Controller, Sigen [illegible] Inverter, Sigen [illegible] Inverter

checklist ed 2.1.2 (12/2019)

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1	2	3	4	5	6	7	8	9	10	11						12				13						14	15
					ONLY for units (suitable for) energy storage: Name and reference of the power		POWER			ADDITIONAL CHARACTERISTICS						LIMITATIONS				APPLICATION						Synergrid approval date	
										D.3	(...)	D.4.1	D.6.2	D.7.2	()	D.7.1	D.4.3	D.9.1	(...)								
SYNERGRID reference number (GLVxxx-yy-zzzz)	BRAND NAME	Name of the product SERIES	REFERENCE of the model / type of the unit	FIRMWARE VERSION	power control system type EnFluRi	other power control system	P_{max} rated (active) power (W)	S_{max} maximum apparent power (VA)	1-phase or 3-phase	integrated automatic separation system	"RfG type B ready" = suitable for use in installation ≥ 1MW	additional operating frequency range (51.5 Hz - 52.5 Hz)	power response to underfrequency	active power reduction P(U)	compliant power control system provided (e.g. EnFluRi)	only homologated for "small power-generating installations"	only homologated for connection to HV-network	only homologated for use in module < 800W	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	[illegible]	Temporary homologation (expires on 01/06/2020)	Final homologation
GLV231-02-0001	Sigenergy	Sigen PV Inverter	Sigen PV Max 5.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH		5,000	5,500	3-phase	X		X	X	X	X					X							
GLV231-02-0002	Sigenergy	Sigen PV Inverter	Sigen PV Max 6.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH		6,000	6,600	3-phase	X		X	X	X	X					X							
GLV231-02-0003	Sigenergy	Sigen PV Inverter	Sigen PV Max 8.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH		8,000	8,800	3-phase	X		X	X	X	X					X							
GLV231-02-0004	Sigenergy	Sigen PV Inverter	Sigen PV Max 10.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH		10,000	11,000	3-phase	X		X	X	X	X					X							
GLV231-02-0005	Sigenergy	Sigen PV Inverter	Sigen PV Max 10.0 TP BE	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH		10,000	10,000	3-phase	X		X	X	X	X					X							
GLV231-02-0006	Sigenergy	Sigen PV Inverter	Sigen PV Max 12.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH		12,000	13,200	3-phase	X		X	X	X	X					X							
GLV231-02-0007	Sigenergy	Sigen PV Inverter	Sigen PV Max 15.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH		15,000	16,500	3-phase	X		X	X	X	X					X							

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GLV231-02-0008	Sigenergy	Sigen PV Inverter	Sigen PV Max 17.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH		17.000	18.700	3-phase	X		X	X	X	X					X						
GLV231-02-0009	Sigenergy	Sigen PV Inverter	Sigen PV Max 20.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH		20.000	22.000	3-phase	X		X	X	X	X					X						
GLV231-02-0010	Sigenergy	Sigen PV Inverter	Sigen PV Max 25.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH		25.000	27.500	3-phase	X		X	X	X	X					X						
GLV231-02-0011	Sigenergy	Sigen Hybrid Inverter	Sigen Hybrid 5.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		5.000	5.500	3-phase	X		X	X	X	X					X		X	X			
GLV231-02-0012	Sigenergy	Sigen Hybrid Inverter	Sigen Hybrid 6.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		6.000	6.600	3-phase	X		X	X	X	X					X		X	X			
GLV231-02-0013	Sigenergy	Sigen Hybrid Inverter	Sigen Hybrid 8.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		8.000	8.800	3-phase	X		X	X	X	X					X		X	X			
GLV231-02-0014	Sigenergy	Sigen Hybrid Inverter	Sigen Hybrid 10.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		10.000	11.000	3-phase	X		X	X	X	X					X		X	X			
GLV231-02-0015	Sigenergy	Sigen Hybrid Inverter	Sigen Hybrid 10.0 TP BE	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-		10.000	10.000	3-phase	X		X	X	X	X					X		X	X			
GLV231-02-0016	Sigenergy	Sigen Hybrid Inverter	Sigen Hybrid 12.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		12.000	13.200	3-phase	X		X	X	X	X					X		X	X			
GLV231-02-0017	Sigenergy	Sigen Hybrid Inverter	Sigen Hybrid 15.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		15.000	16.500	3-phase	X		X	X	X	X					X		X	X			

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GLV231-02-0018	Sigenergy	Sigen Hybrid Inverter	Sigen Hybrid 17.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH Sigen Gateway HomeMax TP, or Home TP		17.000	18.700	3-phase	X		X	X	X	X					X			X	X			
GLV231-02-0019	Sigenergy	Sigen Hybrid Inverter	Sigen Hybrid 20.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		20.000	22.000	3-phase	X		X	X	X	X					X			X	X			
GLV231-02-0020	Sigenergy	Sigen Hybrid Inverter	Sigen Hybrid 25.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		25.000	27.500	3-phase	X		X	X	X	X					X			X	X			
GLV231-02-0021	Sigenergy	Sigen Energy Controller	SigenStor EC 5.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		5.000	5.500	3-phase	X		X	X	X	X					X			X	X			
GLV231-02-0022	Sigenergy	Sigen Energy Controller	SigenStor EC 6.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		6.000	6.600	3-phase	X		X	X	X	X					X			X	X			
GLV231-02-0023	Sigenergy	Sigen Energy Controller	SigenStor EC 8.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		8.000	8.800	3-phase	X		X	X	X	X					X			X	X			
GLV231-02-0024	Sigenergy	Sigen Energy Controller	SigenStor EC 10.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		10.000	11.000	3-phase	X		X	X	X	X					X			X	X			
GLV231-02-0025	Sigenergy	Sigen Energy Controller	SigenStor EC 10.0 TP BE	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP or Home TP		10.000	10.000	3-phase	X		X	X	X	X					X			X	X			

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GLV231-02-0026	Sigenergy	Sigen Energy Controller	SigenStor EC 12.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT[illegible], TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		12.000	13.200	3-phase	X		X	X	X	X					X		X	X						
GLV231-02-0027	Sigenergy	Sigen Energy Controller	SigenStor EC 15.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		15.000	16.500	3-phase	X		X	X	X	X					X		X	X						
GLV231-02-0028	Sigenergy	Sigen Energy Controller	SigenStor EC 17.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		17.000	18.700	3-phase	X		X	X	X	X					X		X	X						
GLV231-02-0029	Sigenergy	Sigen Energy Controller	SigenStor EC 20.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		20.000	22.000	3-phase	X		X	X	X	X					X		X	X						
GLV231-02-0030	Sigenergy	Sigen Energy Controller	SigenStor EC 25.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP or Home TP		25.000	27.500	3-phase	X		X	X	X	X					X		X	X						
GLV231-02-0031	Sigenergy	Sigen Storage Controller	SigenStor AC 5.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		5.000	5.500	3-phase	X		X	X	X	X							X	X						
GLV231-02-0032	Sigenergy	Sigen Storage Controller	SigenStor AC 6.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		6.000	6.600	3-phase	X		X	X	X	X							X	X						
GLV231-02-0033	Sigenergy	Sigen Storage Controller	SigenStor AC 8.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		8.000	8.800	3-phase	X		X	X	X	X							X	X						

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GLV231-02-0034	Sigenergy	Sigen Storage Controller	SigenStor AC 10.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT[illegible], TP-CT30[illegible], TP-CT6[illegible]-DH, Sigen Gateway HomeMax TP or Home TP		10.000	11.000	3-phase	X		X	X	X	X								X	X			
GLV231-02-0035	Sigenergy	Sigen Storage Controller	SigenStor AC 10.0 TP BE	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT3[illegible], TP-CT600-DH, Sigen Gateway HomeMax TP or Home TP		10.000	10.000	3-phase	X		X	X	X	X								X	X			
GLV231-02-0036	Sigenergy	Sigen Storage Controller	SigenStor AC 12.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		12.000	13.200	3-phase	X		X	X	X	X								X	X			
GLV231-02-0037	Sigenergy	Sigen Storage Controller	SigenStor AC 15.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		15.000	16.500	3-phase	X		X	X	X	X								X	X			
GLV231-02-0038	Sigenergy	Sigen Storage Controller	SigenStor AC 17.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		17.000	18.700	3-phase	X		X	X	X	X								X	X			
GLV231-02-0039	Sigenergy	Sigen Storage Controller	SigenStor AC 20.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP or Home TP		20.000	22.000	3-phase	X		X	X	X	X								X	X			
GLV231-02-0040	Sigenergy	Sigen Storage Controller	SigenStor AC 25.0 TP	V100R001C21	Sigen Sensor TP-DH, TP-CT120-DH, TP-CT300-DH, TP-CT600-DH, Sigen Gateway HomeMax TP, or Home TP		25.000	27.500	3-phase	X		X	X	X	X								X	X			

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EXPLANATIONS FOR THE COMPLETION OF THE TABLE

Column	Title	Remarks
1	SYNERGRID reference number [illegible]	In the case of a positive homologation, each C10/26-homologated power-generating unit is given a unique Synergrid reference number: xxx = unique reference of the manufacturer [illegible]
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: [illegible]
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.

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[illegible]	Firmware version	Reference of the firmware version of the unit.
[illegible]	power control system type EnFluRi	This case is only applicable for units (suitable for) energy storage provided with a power control system of type EnFluRi: Name and reference of the power control system of type EnFluRi, compliant to the requirements [illegible] (01/09/2019) §3.[illegible] and §7.[illegible]
7	other power control system	This case is only applicable for units (suitable for) energy storage provided with a power control system of another type than EnFluRi: 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_n - 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 62920 [illegible])
9	Smax - 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
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.
12	Limitations	These columns specify limitations of the units to their [illegible] in certain types of installations, in accordance with the information in the checklist in annex D
13	Application	Indicate the applications for which the unit is suitable.
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:

(1) : S1/01 Technical specification: procedure for application for homologation and renewal of homologation of materials

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