IQ8 Series GLV005-08 Enphase Energy C10/26 - DECLARATION OF CONFORMITY for power-generating units Sunergrid 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) **Enphase Energy** Represented by: Manufacturer: **Enphase Energy** The undersigned, Country: Netherlands 1420 North McDowell Boulevard Address: svengel@enphaseenergy.com email: Pertaluma, CA, 94954 (+49) 176 604 180 90 Telephone: United States of America

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:

- 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.
  - 2.3 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.

\* 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 <u>temporary homologation</u> 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) GLV005-08 ENPHASE ENERGY IQ8 - Series

checklist ed 2.1.2 (12/2019)

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SYNERGRID reference number (GLVxxx-yy-xzzz)	BRAND NAME		REFERENCE of the model / type of the unit	FIRMWARE II VERSION	ONLY for units (suitable for) energy storage; Name and reference of the power control system		POWER			ADDITIONAL CHARACTERISTICS					TICS	LIMITATIONS			3	APPLICATION			N	Synergrid approval date	
		Name of the product SERIES								2	£	0.4.1	0.62	0.7.2	C	D.7.1	D.4.3	D.9.1	Ξ			H			
					power control system type EnFluRi	other power control system	P <sub>ec.</sub> r rated (active) power	S <sub>intex</sub> maximum apparent power	1-phase or 3-phase	automatic separation system	"RIG type B ready" = suitable for us in installation ≥ 1MW	,5 Hz - 52,5 Hz)	to underfreque	active power reduction P(U)	compliant power control system provided (e.g. EnFaRi)	only homologated for "small power- generating installations"	only homologated for connection to HV-network	brily homotogated for use in module < 800W	only homologated as a backup power system according to §2.1.1	Solar energy	CHP (combined heat & power) Wind energy	Energi Energi	Edm Sower	Temporary homologation (expires on 01/85/2020)	homologation
GLV005-08-0001	Enphase	IQ8-Series Microinverters	IQ8PLUS-72-M-INT with IQ Gateway ENV- S-EM-230 (or ENV-S- W8-230) and Q-Relay-1P-INT (or Q-	v08.05.02 or higher			290	290	1-phase	x		-		x		×				×					
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## EXPLANATIONS FOR THE COMPLETION OF THE TABLE

Column	T-s	Remarks
1	SYNERGRID reference number (GLVxxx-yy-22zz)	In the case of a positive homologation, each CIO 26-domologate power-generating unit is given a unique Synergrian element or the manufacturer by a serial number of manufacturer xxx/s record xxx are unique unit reference for the manufacturer xxx.  If the case of a positive homologation, each city of the manufacturer xxx/s record xxx are unique unit reference for the manufacturer xxx.  If the case of a positive homologation, each city of the case of the manufacturer xxx are unique unit reference for the manufacturer xxx.
2	Brand name	Brand name under which the unit is marketed on the Beigian 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 error documents.
4	Reference of the model /	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	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 re-uirements in C10-11 ed 2.1 [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 another type than EnFlu®: Name and reference of the power control system, compliant to the re-unirements in C10 11 ed 2.1 io 1.09 2019 § 7.11.2.2
8	P <sub>ac,</sub> , rated (active) power	Active (electrical) power in W at the terminals of the unit, as stated on the technical sheet / data sheet / brochure and nameplate.  (for Ilhotovoltaic inverters: see also definition in 43.2.5 of IEC 62894 2016-11)
9	Smax - maximum apparent	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 RfC). A unit < 1 MW is only "type B ready" if it complies with all optional properties ticked in column lof 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 life 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 ed.2.1 (0.1/09/2019) and has not yet submitted all the test reports required for a definitive homologation within 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 compilant 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 CIO/1.1.  - The validity date of the test reports in the technical file submitted for approval has not been exceeded.  See also the general Synergrid procedure \$1/01 for homologation of material, which is applicable. {2}

11 - 11 (1.1) In thrical specification: Transfer application for homologistics and renewal of homologistics of materials