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Keuringsverslag van een elektrische laagspanning- en zeer lage spanningsinstallatie

CONFORM

Datum keuring: 28/11/2022

Inspecteur: Bram Van Nuffel

Mentor:

Installateur: Insaver

ID-label: Hoenderveld 1

B.T.W. nr.: BE 0848 444 746

Klantreferentie:

Merk en type meettoestel: Metrel Eurotest ET61557

Serienummer: 19481275

Datum verslag: 28/11/2022

Plaats van het onderzoek

Straatnaam
Huisnummer
Busnummer
Postcode
Gemeente
Land

Hoenderveld
1
9300
Aalst
België

Eigenaar

Naam
Straatnaam
Huisnummer
Busnummer
Postcode
Gemeente
Land

Bruylant Edwin
Hoenderveld
1
9300
Aalst
België

Installateur

Naam
BTW nr.
Telefoonnummer
E-mail

Insaver
BE 0848 444 746
011 81 20 88
stijn.cuppens@insaver.be

Type : PV-installatie en/of thuisbatterij
Afbeelding schakel- en verdeelbord:

EAN : 541448820062529714

Teller Nr.: 1SAG1100591195



Aard onderzoek:

Gelijkvormigheidscontrole van een PV installatie ≤ 10 kVA en/of thuisbatterij volgens (KB 08/09/2019) - AREI Boek 1- 6.4. en 4.2.4.3. en 7.112. en synergrid C10/11.

Netbeheerder: FLUVIUS

Spanning: 1~230V

Meter / bord verbinding: 10 mm²

Max beveiliging: 40 A

Aantal borden: 1

Aantal kringen: 2

Ri algemeen: 13.5 M Ω

OK



Aardelektrode: Verticaal of schuin in de grond gedreven baren, pennen of geleiders

RE: 28.5 Ω

OK



DIFFERENTIEELSTROOMINRICHTING

$I\Delta$ (mA)	I_n (A)	I_n - andere (A)	$I_{\Delta t}$	Type	Beveiligde kringen	Test	x 2,5
300	40		22,5kA2s (3000A)	A	2	OK	OK

BESCHRIJVING INSTALLATIE

Aantal kringen	Curve	Bescherming IN (A)	(andere)	P	Sectie (mm ²)
1	C	40		2	6
1	C	20		2	2,5
Visueel nazicht (algemeen)	OK	Directe aanraking	OK	Indirecte aanraking	OK
Aansluitingen	OK	schema in bijlage door Aceg vzw	NA		
Equipotentiale verbindingen	OK	Doorsnede geleiders	OK		
Continuïteit	OK	Verlichting / toestellen	OK	Eilandwerking	OK

GROENE METER

Fase	Serie Nr	Meterstand	CE markering	MID markering
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OMVORMER

Aantal: 1	Merk: HUAWEI	Serie: SUN2000	Type: 3KTL-L1	Aansluitingen: 1-phase
Serienummer: TA2260085891		Smax (VA): 3300	I AC - nom (A): 14.35	Geschik voor batterij opslag: Ja
Curve: C		IN (A): 20	UDC Max > UDC panelen/string: OK	IDC Max > I str1 + I str2 + ...: OK

FOTOVOLTAISCHE ZONNEPANELEN

Aantal	Merk	Type	Piekvermogen per stuk (Wp)	Totaal Piekvermogen (Wp)
6	Hyundai	White	410	2460

THUISBATTERIJ

OPMERKINGEN - INBREUKEN - NOTA'S

nota/note 2 Geen inbreuken vastgesteld.

nota/note 6 Deze controle omvat enkel de PV-installatie.

BESLUIT

☒ De elektrische installatie voldoet aan de voorschriften van het KB 08/09/2019 - AREI Boek 1. Het volgende controlebezoek is te voorzien voor 28/11/2047

☐ De nodige maatregelen werden genomen, zodat de ingangsklemmen van de automatische differentieelstroominrichting, geplaatst aan het begin van de installatie, ontoegankelijk zijn gemaakt door verzegeling.

☒ Het (de) eendraadsschema(s) en het (de) situatieplan(nen) werd(en) door het erkend organisme voor gezien getekend.

Deze pdf-versie van het keuringsverslag is de originele versie en mag worden verspreid.

Aantal bijlage(n):

VRIJGAVE VAN HET KEURINGSVERSLAG

De inspecteur Bram Van Nuffel

ACEG VZW - #128
De werknemer,

Bram Van Nuffel
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Plichten van de eigenaar, beheerder, huurder voor de installatie onderworpen aan het AREI Boek 1 afdeling 9.1.2.

- Het verslag dient te worden bewaard in het dossier van de elektrische installatie.
- Elke wijziging dient te worden vermeld in het elektrisch dossier.
- Elk ongeval overkomen van personen en te wijten, rechtsreeks of onrechtstreeks, aan de aanwezigheid van de elektrische installatie dient onmiddellijk meegedeeld te worden aan de algemene Directie Energie van de Federale Overheidsdienst Economie.

Kwaliteit

- De reproductie van dit document is enkel toegelaten in zijn integrale vorm en enkel met het schriftelijk akkoord van het controleorgaan en de aanvrager.
- De keuring beperkt zich tot de zichtbare en normaal toegankelijke delen van de installatie.

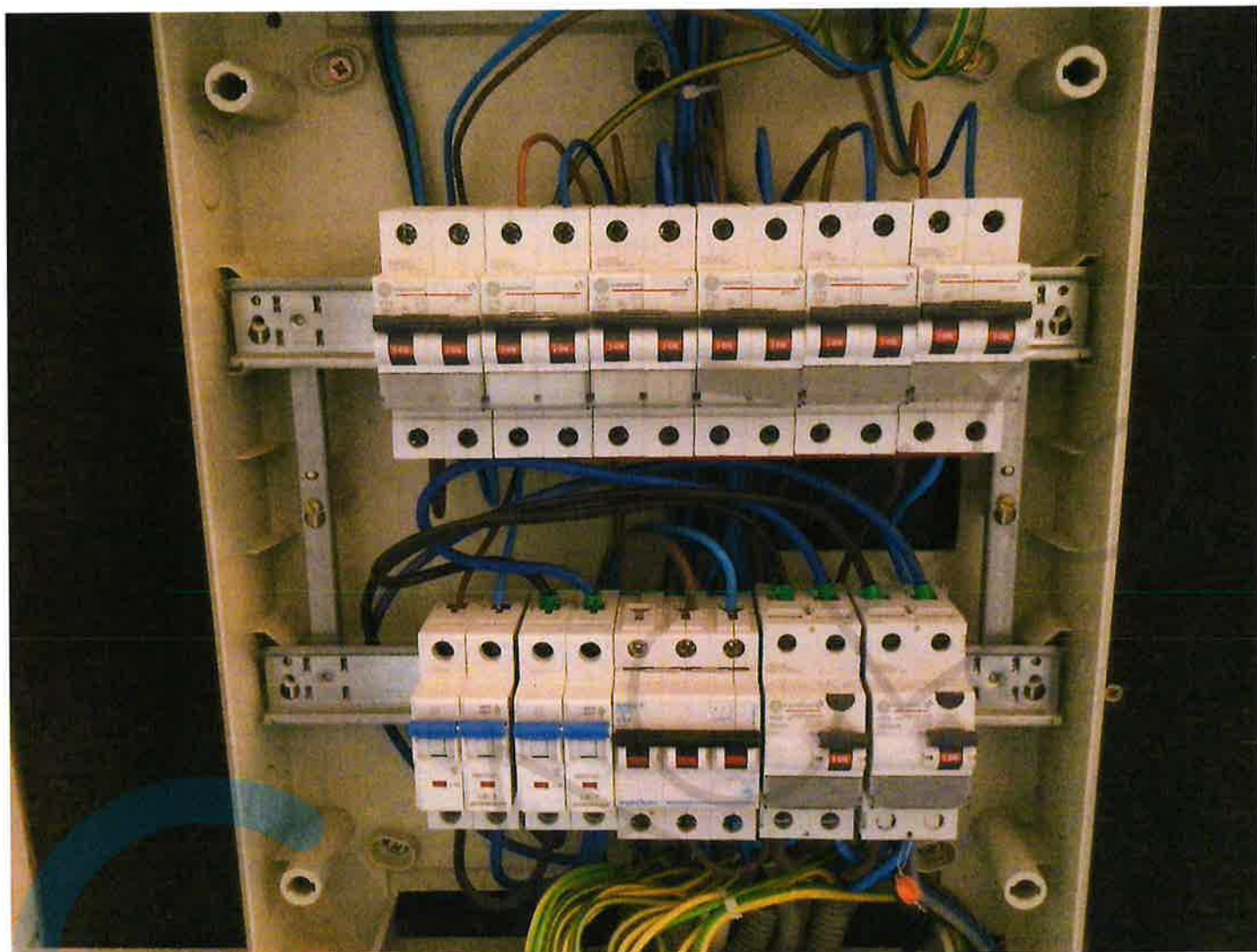
www.aceg.be

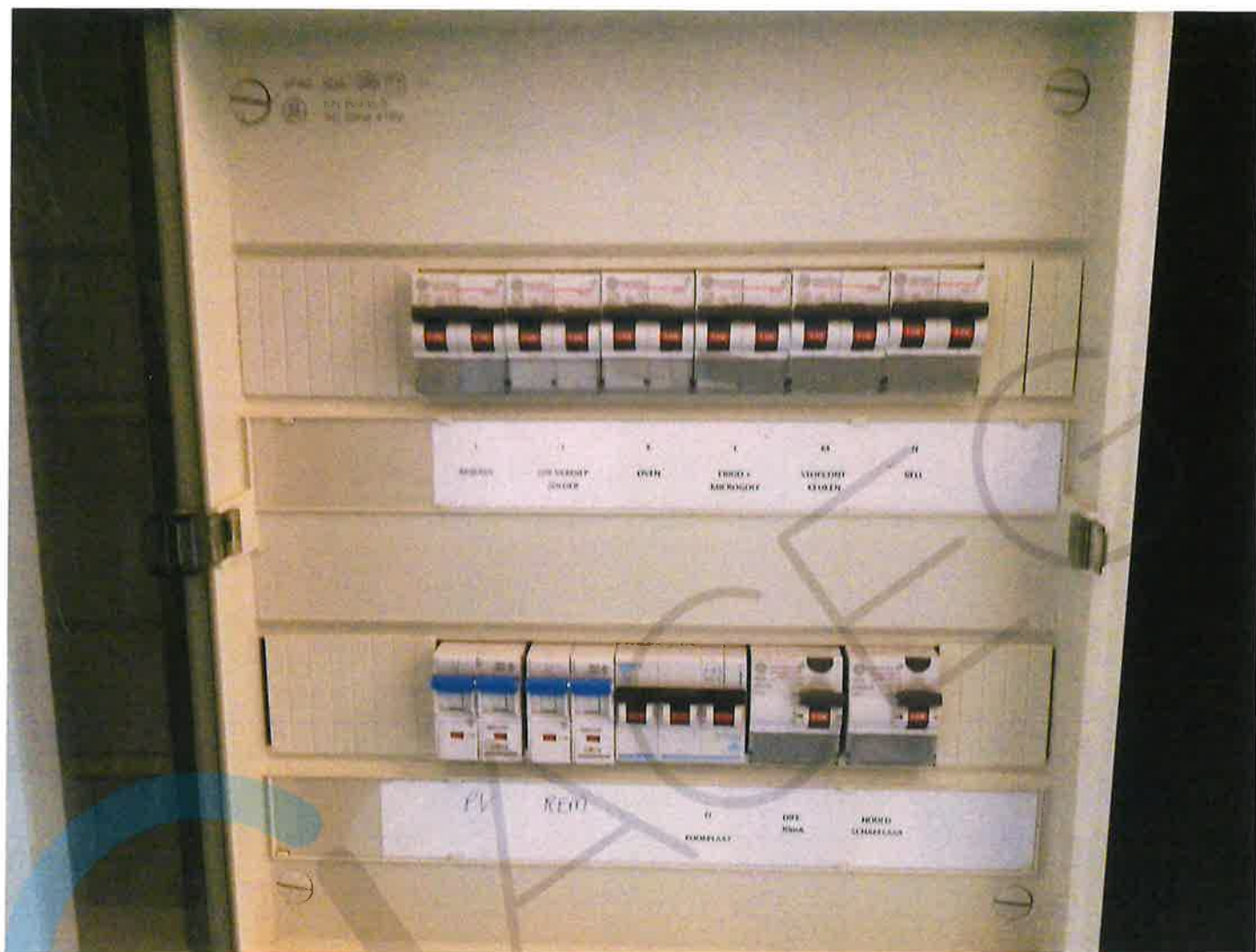
+32 2 880 88 90

BE53 0689 0209 2953 - BTW BE0839.866.481

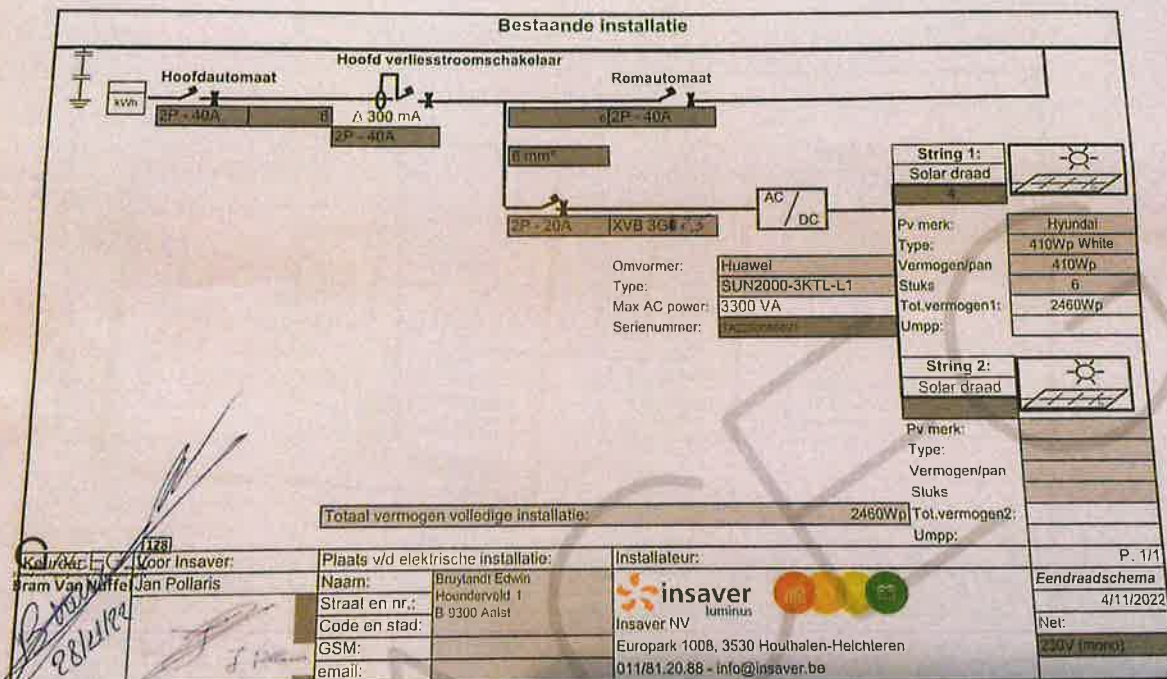
Stappenplan voor een installatie die conform is:

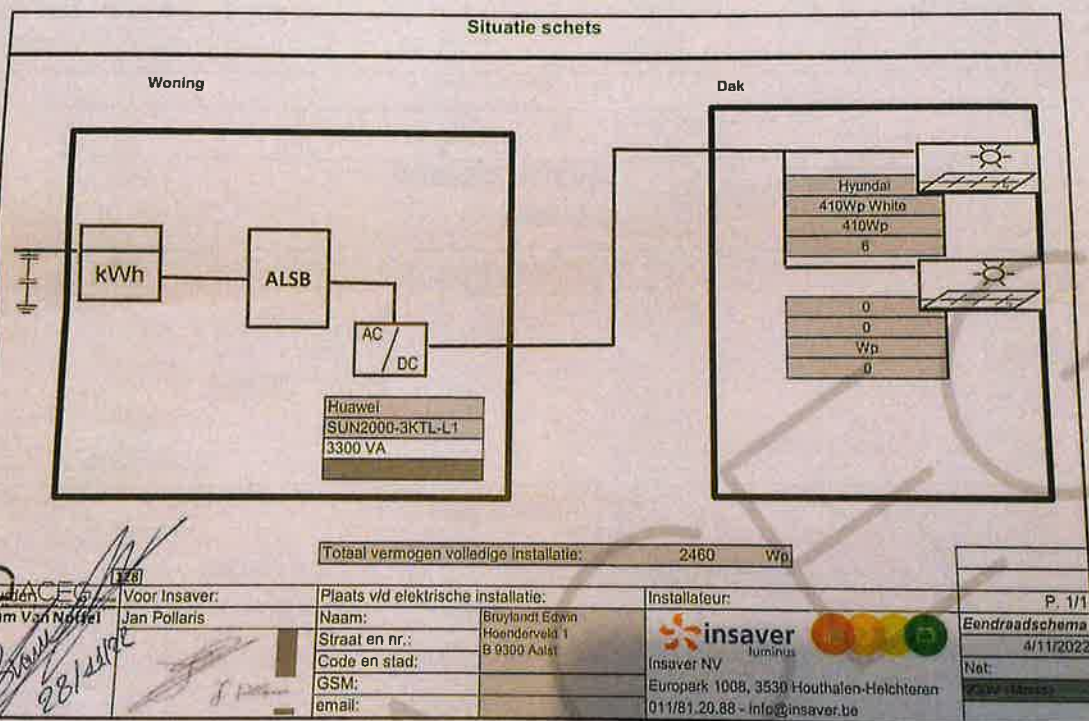
Stap 1	Stap 2	Stap 3	Stap 4
Lees dit proces-verbaal zorgvuldig en besteed aandacht aan de eventuele nota's	Als u grote wijzigingen of uitbreidingen aan de installatie aanbrengt, moet u deze laten controleren.	De volgende periodieke keuring is voorzien voor 28/11/2047	ACEG staat tot uw dienst voor alle noodzakelijke keuringen.















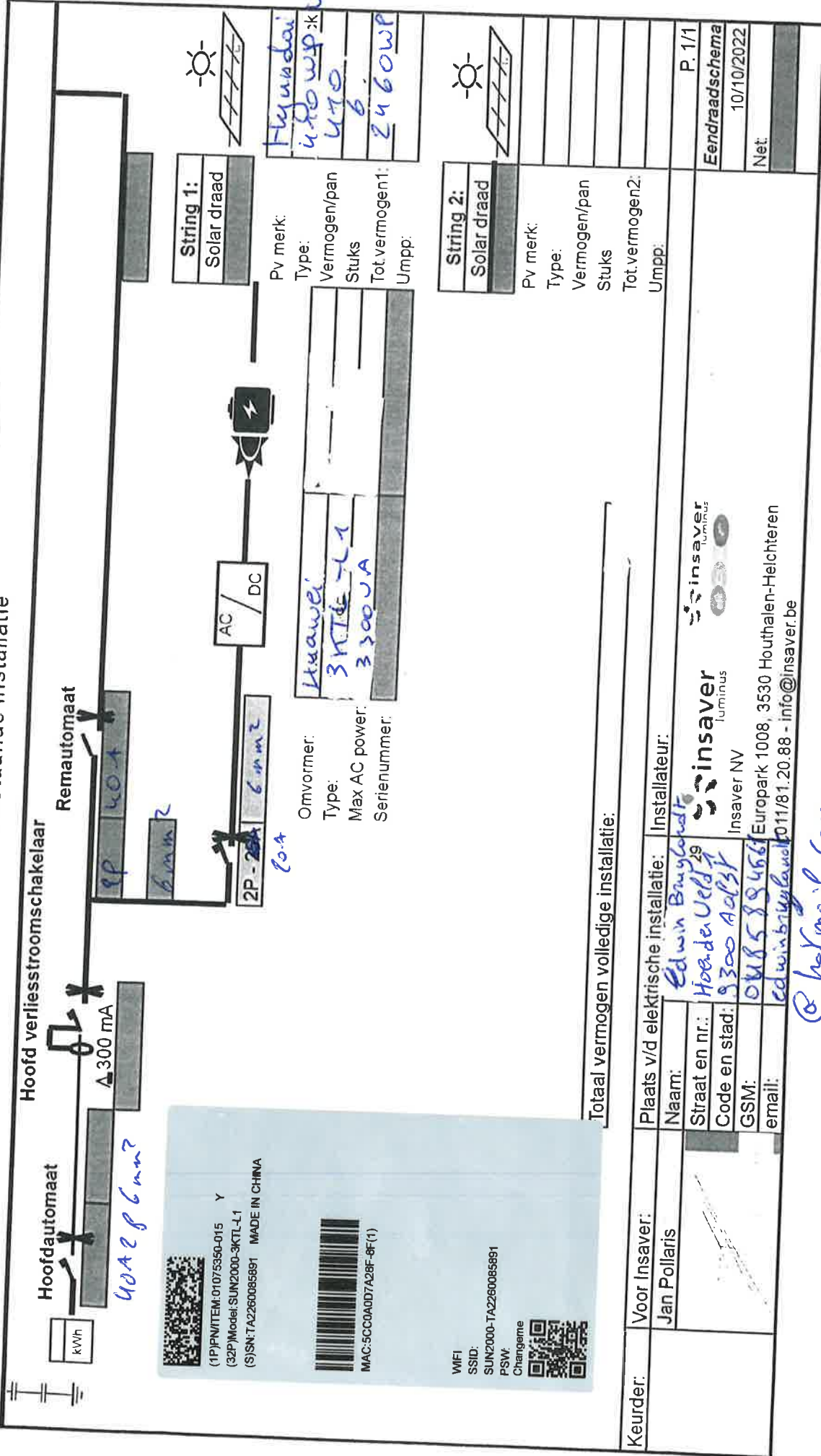








Bestaande installatie



Hyundai
info wp white
470
6
2460WP

Omvormer:
Type:
Max AC power:
Serienummer:

Haawei
30A 6mm²
3000VA

Pv merk:
Type:
Vermogen/pan
Stuks
Tot vermogen1:
Umpp:

String 2:
Solar draad
Pv merk:
Type:
Vermogen/pan
Stuks
Tot vermogen2:
Umpp:

Totaal vermogen volledige installatie:

Keurder:	Voor Insaver:	Plaats v/d elektrische installatie:	Installateur:
	Jan Pollaris	Edwin Bruggelandt	Edwin Bruggelandt
		Straat en nr.:	Hoeden Veld 29
		Code en stad:	3300 Aalst
		GSM:	0485884661
		email:	edwinbruggelandt@hoymail.com
			Insaver NV
			Europark 1008, 3530 Houthalen-Heiligheren
			11/81.20.88 - info@insaver.be
			insaver luminus
			insaver luminus
			P. 1/1
			Eendraadschema
			10/10/2022
			Net:

@hoymail.com

7	Other power control system	This case is only applicable for units (suitable for energy storage, provided with a power control system of active type than passive ; Name and reference of the power control system, compliant to the requirements in C10/11 ed2.1 (01/09/2019) §2.1.3.3
8	P _{av} 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.
9	S _{max} - maximum apparent power (VA)	(For photovoltaic inverters: see also definition in §2.2.5 of IEC 62549:2016-11)
10	1-phase or 3-phase	Maximum apparent (electrical) power at the terminals of the unit, as stated on the certificate / the test report / the technical sheet / data sheet / brochure.
11	Additional characteristics	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. 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 all 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	Synergid approval date Temporary homologation (expired on 01/05/2020)	Date on which the submitted homologation file was approved by Synergid 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 this 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	Synergid approval date Final homologation	Date on which the submitted homologation file was definitively approved by Synergid. - A final approval will be granted as soon as Synergid has a fully compliant homologation dossier. - 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 Synergid procedure SI/01 for homologation of material, which is applicable. (1)

(1) - §3.01 Technical specification: procedure for application for homologation and renewal of homologation of materials

SYNERGRID a.s./b.v.-v.z.w.

Galerie Ravensteingalerij 4/2

BE-1000 Brussels/Brussel

V.A. S.T.W. : BE 0602958061



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Mikael 7 Technologies Netherlands B.V.
 1177 XG Amsterdam, The Netherlands
 Tel: +31 (0)20 625 2254
 Fax: +31 (0)20 625 2255
 Email: info@mikael7.com
 Website: www.mikael7.com

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.

SYNERGRID a.s. b.l.-v.z.w.
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BE-1000 Antwerpen/Brussel
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F +31 (0)20 725 0581





Notariële Tekening van het ontwerp van de
1101 CA Antwerpen 2-0
T +31 (0)20 725 0580
F +31 (0)20 725 0581
B.V. N.V. 1015 1015 1015

C10/26 - homologation - 1. GLV
ed2.1.2 (12/2019) on the basis of C10/11 ed.2.1 (01/09/2019)

GLV 073-10	HUAWEI	SUN2000-2KTL-L1
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: Address:	Huawei Technologies (Netherlands) B.V. Herikerbergweg 36, 1101CM Amsterdam Zuid-Oost, The Netherlands	Represented by: Country: email: Telephone:	Mustafa Temur Belgium mustafa.temur1@huawei.com 0032 475826664
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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.

* Transition period till 01/05/2020 (see exceptions in chapter 3 of C10/11 ed 2.1 (01/09/2019)):

Done at:	(location)	Amsterdam
On:	(date)	27-5-2020
(stamp manufacturer & signature)		

Homologated by Synergrid on: 28/05/2020
Stamp Synergrid & signature: [Signature]

**FINAL
HOMOLOGATION**

Final homologation
on 28/5/2020,
connection ENELER,
on 02/5/2020

C10/26 - homologation - 1. GLV
ed2.1.2 (12/2019) on the basis of C10/11 ed.2.1 (01/09/2019)