



The following SSEG Commissioning Report must be submitted for each installation, confirming compliance with the Municipality's requirements.

Site Details	
Property address (incl. post code)	17 MOSSEL STREET FRAAIUITSIG 6503
Contract account number	280007940051
Contact Details	
SSEG property owner	HERMAN CLAASSENS
Contact person	HERMAN CLAASSENS
Contact telephone number	083 417 7726
SSEG Details	
Manufacturer	SUNSYNK
Type	HYBRID INVERTER
Model	SUNSYNK-5K-SG01LPI
Serial number/s of inverter/s and independent disconnection switching unit/s (if not integrated into one of the components of the embedded generator)	2210316424
Serial number / version numbers of software (where appropriate)	
SSEG rating (kVA) and power factor (under normal running conditions)	5kVA, 1
Single or three phase	SINGLE
Maximum peak AC short circuit current (A)	
Type of prime mover (e.g. inverter or rotating machine) and fuel source (e.g. sun, biomass, wind)	INVERTER WITH SOLAR PANELS
Location of SSEG within the installation	WALL MOUNTED IN GARAGE



ELECTRICITY SERVICES

MBM/COMM

SSEG INSTALLATION COMMISSIONING REPORT

Page 2

Installer Details	
Installer	COMIO WORKS HIGH CELL SOLAR SOLUTIONS
Accreditation/qualification	INSTALLATION ELECTRICIAN
Address (incl. post code)	33 MEEU + DAL SEEMEEU PARK MOSSEL BAY 6500
Contact person	JACOB PETRUS BENADE
Telephone number	061 619 4742
Fax number	-
E-mail address	JAPBENADE@GMAIL.COM

Information to be enclosed	
Final copy of circuit diagram	
Inverter type test Certificate of Compliance and Test Report according to NRS 097-2-1, issued by accredited 3rd party test house (not necessary if already provided).	
Factory setting sheet or other documentation showing that the inverter has been set according to NRS 097-2-1	
An electrical installation Certificate of Compliance.	
Signed contract for SSEG	
Operation and maintenance procedure	



ELECTRICITY SERVICES

MBM/COMM

SSEG INSTALLATION COMMISSIONING REPORT

Page 3

Compulsory declaration – to be completed by ECSA registered Pr. Eng. or Pr. Tech Eng.			
The SSEG installation complies with the relevant sections of NRS 097-2-1.			
The loss of mains protection has been proved by a functional test carried out as part of the on-site commissioning, e.g. a momentary disconnection of the supply to the SSEG in order to prove that the loss of mains protection operates as expected.			
Protection settings have been set to comply with NRS 097-2-1			
Safety labels have been fitted in accordance with NRS 097-2-1			
The SSEG installation complies with the relevant sections of SANS 10142-1 and an installation certificate of compliance is attached.			
Reverse power blocking protection system installed and commissioned to prevent reverse power flow onto the distribution electricity network (where applicable)			
Comments (continue on separate sheet if necessary)			
Name:		Signature:	
ECSA Prof. Category:		Reg. No.:	
		Date:	

Vonk Claassens

Annexure 1
DEPARTMENT OF LABOUR
OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
CERTIFICATE OF COMPLIANCE



Certificate of compliance in accordance with regulation 7(1) of the Electrical Installation Regulations, 2009.

CERTIFICATE NO.

ECB2066970

Certificate type (tick appropriate block)

Initial Certificate

Supplementary Certificate

Supplement No.: _____ to Initial Certificate No.: _____ as issued on: _____

Identification of the relevant electrical installation

(Address or other unique reference, where applicable)

Physical address: 17 MOSSEK ST.

Name of building: _____

GPS Co-ordinates: _____

Suburb / Township: _____

Pole number: _____

District / Town / City: KLEINBRAK

Erf / Lot No: _____

Declaration by registered person

I, J.P. BENADE

(ID No 6405165014080)

a registered person declare that I have personally carried out the inspection and testing of the electrical installation described in the attached test report as per the requirements of:

a) electrical installation regulations 9(2) (a); (new electrical installation); or

b) electrical installation regulations 9(2) (b); (existing electrical installation); or

(Tick appropriate box)

c) electrical installation regulations 9(2) (c); (new part to existing installation)

and deem the installation to be reasonably safe when properly used.

I have entered the number of this certificate on the attached test report(s).

I declare that the persons responsible for the design, specification, procurement, construction commissioning and inspection and test have completed the relevant sections of the test report.

Registered person registration number: IE 17570

Date of registration: 10.07.97

Type of registration: (Tick appropriate box)

Tester for Single Phase

Installation Electrician

Master Installation Electrician

Signature: _____

Date: 17.01.23

Contact details of registered person:

Address: 33 MEEM & DAL

Tel. No.: _____

Fax No.: _____

Cell No.: 061 619 4742

Email: jaapbenade@gmail.com

- NOTE: 1. This certificate is not valid unless all the sections have been completed correctly and the test report in the format approved by the chief inspector is attached.
2. This certificate will be invalid if any corrections have been made.

Declaration by electrical contractor

I, J.P. BENADE

(ID No 6405165014089)

declare that the electrical installation has been carried out in accordance with the requirements of the Occupational Health and Safety Act, 1993, and regulations made thereunder.

Electrical contractor registration number: WC 03346

Date of registration: 07.08.20

Signature: _____

Date: 17.01.23

Contact details of electrical contractor: Name: COMBO WORKS

Address: 33 MEEM & DAL

Tel. No.: _____

Fax No.: _____

Cell No.: 061 619 4742

Email: _____

Recipient Name: VONK CLAASSENS

Signature: _____

Date: _____

TEST REPORT (see 8.6 for guidelines)

FOR ALL GENERAL ELECTRICAL INSTALLATIONS TO SANS10142-1
Register your CoC & Test Report at <https://ecb.org.za/coc>

Certificate Of Compliance (CoC) No. ECB2066970	DB/Supply No:	Date of Issue:
---	---------------	----------------

IMPORTANT NOTE: SOUTH AFRICAN LEGISLATION STATES THE USER OR LESSOR IS RESPONSIBLE FOR THE SAFETY, SAFE USE AND MAINTENANCE OF AN ELECTRICAL INSTALLATION.

NOTE 1 - This report covers only the part of the installation described in Section 3.
NOTE 2 - This report covers the circuits for fixed appliances but not the actual appliances.
NOTE 3 - Medical and hazardous user locations require additional test reports (see 8.7).
NOTE 4 - Enter the required information or tick the appropriate block.
NOTE 5 - It is suggested that the CoC Number be attached to the distribution board (DB).
NOTE 6 - Regulations are not made retrospective.
NOTE 7 - In most circumstances this test report should be accompanied by annex pages for circuits, earth continuity and ideally wiring diagrams and photographs. Please query if not the case.

SECTION 1 - LOCATION Only required if not provided on Certificate of Compliance

Physical address: _____
Name of building and/or location of installation: _____

SECTION 2 - ABOUT THE INSTALLATION

Type of electrical installation system	<input checked="" type="checkbox"/> Permanent Installation		<input type="checkbox"/> Temporary Installation		<input type="checkbox"/> Common area for multiple users (sectional title)	
	TN-S	TN-C-S	TN-C	TT	IT	<input checked="" type="checkbox"/> Supplier's earth is functional
Characteristics of supply						
Voltage	<input checked="" type="checkbox"/> 230	400	525	Other:	Volts	
Frequency	<input checked="" type="checkbox"/> 50Hz	Other	Hz	D.C.		
Number of phases	<input checked="" type="checkbox"/> One	Two	Three	Phase rotation	Clockwise	Anti clockwise
					NA	
Main switch type	<input type="checkbox"/> Earth Disconnect (in-rat isolation)		<input checked="" type="checkbox"/> Fused Switch		<input checked="" type="checkbox"/> Circuit Breaker	
					<input type="checkbox"/> Earth Leakage Circuit Breaker	
Number of poles	<u>2</u>	Current rating	<u>20</u>	Amps	Short circuit/withstand rating	<u>60</u> kAmps
Rated earth leakage tripping current I _{Δn}	<u>30</u> mA	Other				
Is surge protection installed? (see 6.7.4 and annex 1)	<input checked="" type="checkbox"/> Yes		No			
Is lightning protection installed? (see 6.7.8 and annex 1)	Yes		No <small>(if applicable, complete Table 1.10 Lightning protection system installation safety report)</small>			
Is an alternative power supply installed? (see 7.1.2)	<input checked="" type="checkbox"/> Yes		No <small>(if Yes, complete additional special test report sub 8.7 of SANS 10142-1 - Wiring of Premises)</small>			
Is any part of installation a specialised electrical installation?	Yes		No <small>(if Yes, competent person must approve design and additional test reports (see 8.5.3 and SANS 10142-1)</small>			
Is any part of the installation at a voltage above 1 kV	Yes		No <small>(if Yes, competent person must approve design and additional test reports (see 8.5.3 and SANS 10142-1)</small>			

SECTION 3 - DESCRIPTION OF INSTALLATION COVERED BY THIS REPORT Include annex pages for additional notes, specification references, wiring drawings, etc. to represent all applicable information of work done

NUMBER OF CIRCUITS OR POINTS	New		Existing		NUMBER OF APPLIANCES, EARTH LEAKAGE & OTHER	New		Existing	
Lighting circuits					Cooking				
Lighting points					Geyser				
Socket outlet circuits					Pool pump				
Socket outlets					Borehole pump				
Transformer circuits	Lighting				Other	<u>5.3 kW</u>			
	Bell				Other circuits or points	<u>5.2 kW</u>			
	Other				Other circuits or points	<u>2500 W</u>			
Air-conditioning circuits					No. of socket outlets protected by earth leakage				
Heating circuits					The Earth Leakage	The complete installation (Yes/No)			
Fan circuits					Protects:	Only partial installation (Yes/No)			
Alternative power supply connections					Is there photographic evidence? (in view of the DB)	Before work started			<input checked="" type="checkbox"/> After work completed

IMPORTANT NOTE: Items not listed must not be ignored and must be an annex page to this test report. Contact the ECB for annex page templates.

SECTION 4 - INSPECTION AND TESTING OF NEW AND EXISTING INSTALLATIONS Annex pages are likely needed to accompany the test information below

1. Conductors are of the correct rating and current-carrying capacity for the protective devices and connected load	<input checked="" type="checkbox"/> Yes	No	N/A
2. Components have been correctly selected and installed	<input checked="" type="checkbox"/> Yes	No	N/A
3. Disconnecting devices are correctly located and all switchgear correctly switches the phase conductors	<input checked="" type="checkbox"/> Yes	No	N/A
4. Circuits, fuses, switches, terminals, earth leakage units, circuit breakers, distribution boards are correctly and permanently marked or labelled	<input checked="" type="checkbox"/> Yes	No	N/A

TESTS	UNITS	READING	INSTRUMENT	IS COMPLIANT?
1. Continuity of bonding	Ω			<input checked="" type="checkbox"/> Compliant
2. Resistance of earth continuity conductor at ALL points of consumption: (see annex pages for list all)	Ω			<input checked="" type="checkbox"/> Compliant
3. Continuity of ring circuits: (see annex page if applicable)				N/A
4. Earth loop impedance test at main or local switch: (see annex page if applicable)	Ω			N/A
5. Neutral loop impedance test at main or local switch: (see annex page if applicable)	Ω			N/A
6. Prospective short circuit current at main or local switch (PSCC): (see annex page if applicable)	kA			Calculated or Measured
7. Elevated voltage between incoming neutral and external earth, (ground) supply lead, measure and record	V			
8. Insulation resistance:	MΩ			
9. Voltage at distribution board with no load for each phase to neutral	V	<u>230</u>		
10. Voltage at distribution board with load (as calculated for full load) for each phase to neutral	V	<u>230</u>		
11. Record value of operation of earth leakage units: (ground tripping current)	mA			
12. Operation of earth leakage test buttons: (see listing)	Correct			
13. Polarity of points of consumption: (check every socket for correct polarity)	Correct			
14. Phase rotation is consistent at points all of consumption for three-phase systems	Correct		<input checked="" type="checkbox"/> N/A	
15. All switching devices, make-and-break circuits: (direction way)	Correct			

Other comments pertaining to this project/test report: _____

SECTION 5 - RESPONSIBILITY, INSPECTION AND TESTS When relevant, include other responsible parties & signatures in an annex pages or take full responsibility # of annex pages

I, being the person responsible for the INSPECTION AND TESTING of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the inspection and testing were done in accordance with this part of SANS 10142, that the results obtained and reflected on this report and annex pages are correct and indicate the extent of the liability of the signatory is limited to the installation described in Section 3 of this form.

Full name of registered person: JACOB PETRUS BENADE ID number: 640516 5014 050

Signature: _____ Date: 17.01.23 Tel No: 0816194742 Email: _____

Registration Certificate No.: IE 17570 Date of registration: 10.07.97 Electrical Tester for Single Phase (ETSP): Installation Electrician (IE) Master Installation Electrician (MIE)