

Version 14 - Feb 2026

Your Company Logo



Site Address or GPS Co-ordinates where available: _____

User / Owners Contact Details

Client's Name and Surname _____

E-mail address _____

Physical address _____

Suburb _____

Province _____

Contact Number: _____

Solar Contractors Details

Installer Name and Surname _____

Accreditation number _____

Registration number with the Department of Labour _____

Electrical Contractor's Details☐ Same as above

Registered Person's Name and Surname _____

Accreditation number _____

Registration number with the Department of Labour where the contractor is registered as: _____

Electrical Contractor is:☐

Single Phase Tester

☐

Installation Electrician

☐

Master Electrician

☐

Working under General Control

Type of Installation☐

Hybrid Inverter as Backup

Complete Section 1, 2 and 5

☐

Hybrid Inverter with Solar PV

Complete Section 1, 2, 3, 4a + 4b(When Required) and Section 5

☐

SSEG Installation - Hybrid /Grid Tied Inverter used in Grid tied configuration without Storage

Complete Section 1, 3, 4 and 5

This document can only be issued at a site where there is an existing and valid Certificate of Compliance covering the Main electrical reticulation

For installations with more components please copy or duplicate the required sections

1	Section 1a - Hybrid Inverter	Number	1	of	_____	Brand Name:	_____
2	Inverter Serial Nr	_____	Inverter Capacity (in kW or kVA)	_____	kVA	_____	kW
3	DB Board is	☐ Single Phase	☐ Three Phase	Inverter is wired	☐ To a single Phase	☐ To two Phases	☐ To all three Phases
4	AC Mains Input to Inverter - Circuit Breaker Size	_____	Amps	_____	kA	Conductor Size	_____
5	AC Output from Inverter to Load - Circuit breaker size	_____	Amps	_____	kA	Conductor Size	_____
6	Earth Neutral Bridge	☐ Programmable / Internal relay	☐ External Contactor / Relay	☐ Hard Wired			
7	Inv. Casing bonded and continuous to Consumer Earth Bar 6.11	_____	Ohm	☐ Input CB Labelled	☐ Output CB Labelled		
8	Inverter Numbered with A Label (where there is more than 1)	☐ Yes	☐ Alternative Supply Label Fitted on Inverter				
9	Anti Islanding operation functional	☐ Tested	☐ N/A - (To be used for installations where there is no available grid)				
10	Number of Built-in MPPT's	_____	Total Number of MPPT inputs	_____			
11	MPPT Voltage Range	Vmp	_____	Open Circuit Voltage Range	Voc	_____	

1	Section 1b - Hybrid Inverter	Number	2	of	_____	Brand Name:	_____
2	Inverter Serial Nr	_____	Inverter Capacity (in kW or kVA)	_____	kVA	_____	kW
3	DB Board is	☐ Single Phase	☐ Three Phase	Inverter is wired	☐ To a single Phase	☐ To two Phases	☐ To all three Phases
4	AC Mains Input to Inverter - Circuit Breaker Size	_____	Amps	_____	kA	Conductor Size	_____
5	AC Output from Inverter to Load - Circuit breaker size	_____	Amps	_____	kA	Conductor Size	_____
6	Earth Neutral Bridge	☐ Programmable / Internal relay	☐ External Contactor / Relay	☐ Hard Wired			
7	Inv. Casing bonded and continuous to Consumer Earth Bar 6.11	_____	Ohm	☐ Input CB Labelled	☐ Output CB Labelled		
8	Inverter Numbered with A Label (where there is more than 1)	☐ Yes	☐ Alternative Supply Label Fitted on Inverter				
9	Anti Islanding operation functional	☐ Tested	☐ N/A - (To be used for installations where there is no available grid)				
10	Number of Built-in MPPT's	_____	Total Number of MPPT inputs	_____			
11	MPPT Voltage Range	Voc	_____	Vmp	_____		

12	Signatures for this page	Dated:	_____
13	Installer	Registered person	_____

14 **Section 2 - Batteries** ☐ Lead-Acid ☐ Lithium ☐ Other please specify _____

15 Battery Brand/Name _____ All Batteries are the same brand and size ☐ Yes ☐ No

16 Charge rate as set per inverter _____ Amps (NRS097 charge limit) Battery Serial Nr _____

17 Voltage Type ☐ Low Voltage (48V-96V) ☐ High Voltage (>100V)

18 **Battery Installation Type** ☐ Rack / Server Type ☐ Wall Hung ☐ Floor Standing ☐ Stacked

19 ☐ Rack / Server / Cabinet ☐ R / C / S

20 ☐ Nr of batteries (or nr per Cabinets / Stacks / Rack) ☐ Series ☐ Parallel

21 Total Installation Capacity _____ kWh

22 Jumpers are enclosed and is not accessible in order to be measured. ☐ YES ☐ N/A

23 Battery **Enclosure** Bonded to Consumer Earth Bar _____ Ohm Battery **Cabinet** Bonded to Consumer Earth Bar _____ Ohm

24 Take-off Lead from battery to Busbar / Fuse _____ mm2 Jumpers in between parallel batteries - Interlinks _____ mm2

25 Cable Sizing to be - each mm2 = 1kA Fault current 6.7.3.2

26 ☐ Amp ☐ Fuse/s ☐ Circuit Breaker/s is/are connected between the **inverter** and ☐ Rack / Server / Cabinet ☐ Busbar ☐ Battery

27 This is for external Fuse Protection (not the fuse or Circuit Breaker built into the battery)

28 ☐ Amp ☐ Fuse/s ☐ Circuit Breaker/s is/are connected between the **busbar** and ☐ Rack / Server / Cabinet ☐ Busbar ☐ Battery

29 This is for external Fuse Protection (not the fuse or Circuit Breaker built into the battery)

30 **Section 3 - Solar Modules**

31 Number of modules _____ Total PV System Size _____ kW Module Size _____ Watt Module Brand _____

Where possible, test and record the following values (alternatively calculate values), values indicated could be for single strings or parallel strings

		String 1	String 2	String 3	String 4	String 5	String 6	String 7	String 8
32	Nr. Of Modules	Qty							
33	Voc								
34	Vmp								
35	Imp								
36	Isc								
37	Single String	☐	☐	☐	☐	☐	☐	☐	☐
38	Parallel String	☐	☐	☐	☐	☐	☐	☐	☐

39 PV Modules Bonded and continuous to Consumer Earth Bar _____ Ohm. Values for row 33 and 34 were measured at which point? ☐ Inverter ☐ Combiner ☐ At the String

40 All MC4 Type couplers are of the same Brand ☐ Yes ☐ Unknown

41 Mounting Structure Type ☐ Rooftop ☐ Ground Mount ☐ Carport ☐ Other

42 Module Frames are supported by Mounting Structure Rail made of ☐ Aluminium ☐ Galvanised ☐ Other

43 Mid and End Clamps are made of ☐ Stainless Steel ☐ Aluminium ☐ Galvanised ☐ Other

44 Conductors passing under tiles / through roofing materials are protected from Mechanical damage ☐ Yes ☐ N/A

45 Bolts on Mid and End Clamps are Torqued to which Value _____ Nm Modules/Strings are numbered and labelled ☐ Yes ☐ N/A

46 Positive and negative cables enter the roof/building at the same place (Meaning Conductors are bundled together) ☐ Yes ☐ N/A

47 Labelling of DC strings where they enter/ exit a wall/ roof (712.514.102 - Live parts marking) ☐ Yes ☐ N/A

48 Wiring loops were minimised according to 712.521.103 ☐ Unknown ☐ Yes ☐ N/A

49 **Signatures for this page** Dated: _____

50 Installer _____ Registered person _____

51 **Section 4a - Combiner / Fuse Box / Gateway** ☐ Fuse Box ☐ Combiner Box ☐ Gateway or Other please specify _____
☐ The Installation parameters for the Gateway / Fuse / Combiner box does not fall into the fields listed in this Test Report

52 **Short Circuit Protection** ☐ DC Circuit breaker ☐ DC Fuse Fuse / Circuit breaker Size _____ Amps and _____ kA
 Either Fuse or Circuit breaker Protection can be used on the positive conductors

53 **Reverse Current Protection** ☐ DC Circuit breaker (non-polarised; that can detect reverse current) ☐ DC Fuse DC Fuse Size _____ Amps and _____ kA
 Not all Circuit breakers can protect against DC reverse current. For Fuses, there will be fuses on the negative and positive conductors

54 **Isolation** ☐ DC Circuit Breaker ☐ DC Rated Isolator Isolation device Size _____ Amps and _____ kA
 (Fuse may not be used as an isolation device) - Double Pole

55 **Location** ☐ Combiner Boxes are installed at floor level and can be reached without a step ladder

56 **Labels** ☐ String Conductors are numbered and Labelled ☐ Combiner / Fuse Box is labelled "Danger - Live DC Conductors - Solar Power"

57 **Section 4b - External MPPT** ☐ ALL MPPT casings are bonded and continuous to earth

58 (Pos) Short Circuit Protection ☐ DC Circuit breaker ☐ Fuse or Circuit breaker Size DC Fuse _____ Amps and _____ kA
 Either Fuse or Circuit breaker Protection can be used on the positive conductors

59 (Neg) Reverse Current Protection ☐ DC Fuse DC Fuse Size _____ Amps and _____ kA
 Only Fuses can be used. Circuit breakers do not protect against reverse current, Fuses will be situated on the negative conductors

60 Isolation ☐ DC Disconnect ☐ DC Rated Isolator Isolation device Size _____ Amps and _____ kA
 (Fuse may not be used as an isolation device and cannot be opened under load) - Double Pole

61 ☐ String Conductors are numbered and Labelled ☐ MPPT's are numbered

62 ☐ MPPT's are labelled with a "Danger - Live DC Conductors - Solar Power" Sign

63 **Section 5 - General**

64 Earth Leakage has been fitted after inverter ☐ Yes ☐ N/A ☐ Earth Neutral Bond before RCD

65 DC Surge Protection fitted Type 1 and 2 combined ☐ Yes ☐ N/A Type 2 ☐ Yes Type 3 ☐ Yes ☐ N/A

66 AC Surge Protection has been fitted Type 1 and 2 combined ☐ Yes ☐ N/A Type 2 ☐ Yes Type 3 ☐ Yes ☐ N/A

67 Metal Wireways and trunking Bonded and continuous to Consumer Earth Bar ☐ Yes ☐ N/A

68 **Earth Loop** impedance test before E/L on DB Powered by Inverter _____ Ω **Neutral Loop** test at point of control _____ Ω

69 Plug Test has been completed and Earth Leakage Units are fully operational ☐ Yes ☐ N/A

70 Resistance of earth continuity conductor _____ Ω

71 Prospective Short circuit current at point of control for the DB Board where inverter is installed _____ kA

72 Elevated voltage between incoming neutral and external earth _____ V

73 Voltage at Main DB with no load for each phase to neutral Red _____ V White _____ V Blue _____ V

74 Voltage at Main DB with load for each phase to neutral Red _____ V White _____ V Blue _____ V

75 Lightning risk assesment completed ☐ Yes ☐ N/A

76 SLD single line diagram attached next to DB ☐ Yes ☐ Available as soft copy

77 Audible or visual warning where DB's are split ☐ Audible ☐ Visual

78 **Sections Completed under this test report**

79 ☐ 1 ☐ Yes ☐ N/A

80 ☐ 2 ☐ Yes ☐ N/A

81 ☐ 3 ☐ Yes ☐ N/A

82 ☐ 4a ☐ Yes ☐ N/A

83 ☐ 4b ☐ Yes ☐ N/A

84 ☐ 5 ☐ Yes ☐ N/A

85 **Signatures for this Document and Test Report**

86 Installer _____

Dated: _____

Registered person _____