Grid Connected Solar PV Power System Commissioning Checklist

System Owner Details	
148 Port Road	
Aldinga SA 5173 System Owners Name	Peter Smith
System Owners Email	
System Owners Phone Number	0457 733 140
Date of Install	28/02/2021
Building Type	Single Storey
NMI	20023458749
Meter Number	EEK040035
Number of Phases	3
DNSP	SA Power Networks
Energy Retailer	
SEG Approval Number	
Export Limiting Requirements	
PV Module Checklist	
Panel Manufacturer	Longi
Panel Model	LR4-72HPH-450M
MC4 Connectors	Genuine
String 1	
Number of Panels	2.19
Orientation	N
Inverter Number	1

MPPT#	1
String 2	
Number of Panels	2.15
Orientation	N
Inverter Number	1
MPPT#	2
String 3	
Number of Panels	15
Orientation	N
Inverter Number	1
MPPT#	3
String 4	
Number of Panels	2.19
Orientation	N
Inverter Number	2
MPPT#	1
String 5	
Number of Panels	2.15
Orientation	N
Inverter Number	2
MPPT#	2
String 6	
Number of Panels	15
Orientation	N

Inverter Number	2
MPPT#	3
String Fuse Rating (if applicable)	
DC Isolators	ZJ Benny 1000V/ 32A
Number of DC Isolators	6
All DC Isolators are correctly rated and conisolate.	figured for the PV Arrays they
Inverter has and integrated DC Isolator	
All DC Isolators have been tested (turned off) under load.	
Conduit has been compliantly installed and adequately supported.	
Roof penetrations have been adequately sealed.	
Cable is mechanically protected and suppo AS/NZS 5003.	rted as per AS/NZS 3000 and
DC Cable volt drop is less than 3%	
Inverter Checklist	
Inverter Manufacturer	Sungrow
Inverter Model Number	Sg30cx
Number of Inverters	2
Inverter is installed to all relevant standard specifications.	s, guidelines and manufacturer's
AC Isolator is mounted adjacent to the invectorrectly rated and is lockable.	erter if applicable. This Isolator is
correctly rated and is lockable.	
AC Circuit Breaker is mounted in the switch	board and is correctly rated.
•	
AC Circuit Breaker is mounted in the switch	
AC Circuit Breaker is mounted in the switch AC Cable voltage rise from inverter to the p	

The array frame is certified to AS/NZS 1170.2

Other

System is labelled as per requirements in AS/NZS 3000, AS/NZS 5033, AS/NZS 477.1 and CEC Guidelines.

LV Wiring has been installed, tested and certified by a licenced electrician.

System is compliant as per AS/NZS 5033 Section 5 – Marking & Documentation and Appendix A.

Inverter Settings

Inverter is installed as per network service provider (NSP) Connection Agreement.

Country Code settings are set to Australia.

Volt Var	Settings
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V1	207 / 31% Leading
V2	220 / 0
V3	248 / 0
V4	253 / 44% Lagging

Volt Watt Settings

207 / 100%
220 / 100%
248 / 100%
253 / 100%
258 volts

Inverter shuts down within 2 seconds of isolation.

Inverter takes at least 60 seconds to start after reconnection.

Inverter then takes 6 minutes to ramp up to 100%.

	String 1
PV Array Maximum Voltage	997.6
Continuity of strings and correct polarity (Y or N)	Yes
Earth Continuity	Yes
Insulation Resistance	>200
Open Circuit Voltage (Not Under Load)	843
Short Circuit Current (Not Under Load)	23.2
Voltage (System Operational)	646
Current (System Operational)	5.2
Power (System Operational)	3400
String 2	
PV Array Maximum Voltage	787.6
Continuity of strings and correct polarity (Y or N)	Yes
Earth Continuity	Yes
Insulation Resistance	>200
Open Circuit Voltage (Not Under Load)	700
Short Circuit Current (Not Under Load)	23.2
Voltage (System Operational)	592
Current (System Operational)	10.53
Power (System Operational)	6300

	String 3
PV Array Maximum Voltage	787.6
Continuity of strings and correct polarity (Y or N)	Yes
Earth Continuity	Yes
Insulation Resistance	>200
Open Circuit Voltage (Not Under Load)	702
Short Circuit Current (Not Under Load)	11.6
Voltage (System Operational)	602
Current (System Operational)	5.26
Power (System Operational)	3180
String 4	
PV Array Maximum Voltage	997.6
Continuity of strings and correct polarity (Y or N)	Yes
Earth Continuity	Yes
Insulation Resistance	>200
Open Circuit Voltage (Not Under Load)	890
Short Circuit Current (Not Under Load)	23.2
Voltage (System Operational)	658
Current (System Operational)	11.31
Power (System Operational)	7500

	String 5
PV Array Maximum Voltage	787.6
Continuity of strings and correct polarity (Y or N)	Yes
Earth Continuity	Yes
Insulation Resistance	>200
Open Circuit Voltage (Not Under Load)	704
Short Circuit Current (Not Under Load)	23.2
Voltage (System Operational)	589
Current (System Operational)	11.31
Power (System Operational)	6480
String 6	
PV Array Maximum Voltage	787.6
Continuity of strings and correct polarity (Y or N)	Yes
Earth Continuity	Yes
Insulation Resistance	>200
Open Circuit Voltage (Not Under Load)	706
Short Circuit Current (Not Under Load)	11.6
Voltage (System Operational)	595
Current (System Operational)	5.51
Power (System Operational)	3200

Declaration of Responsible Persons

I hereby sign and verify that this system has been designed, installed and commissioned to all relevant Australian Standards, state & territory regulations and CEC guidelines.

CEC Accredited Designer's Name	Corey Evans
CEC Accreditation Number	A9548718
CEC Accredited Installers Name	Dale
CEC Accreditation Number	A2883606
Date	28/02/2021
Signed	
Licensed Electrician Name	Dale
Electrical Licence Number	Pge261953
Date	28/02/2021
Signed	