Sample Solshare PV Commissioning

Report

# Details of Installation

## Site details

|  |  |
| --- | --- |
| Information | Details |
| Customer |  |
| Location |  |
| NMI |  |
| Date of test |  |
| Author |  |

1. Installed Inverter Details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Inverter | Make | Model | Firmware | Serial number |
| Inverter 1 |  |  |  |  |
| Inverter 2 |  |  |  |  |
| Inverter 3 |  |  |  |  |

Insert more inverters if required

1. Installed Solar Panel Details

|  |  |
| --- | --- |
| Manufacturer |  |
| Number of solar panels |  |
| Model number |  |
| Number of panels per inverter |  |

1. Installed Solshare details

|  |  |
| --- | --- |
| Solshare make and model |  |
| Solshare serial number |  |
| Solshare firmware |  |

# Inverters Testing Results

## Inverters Protection Settings Testing

|  |  |
| --- | --- |
| Inverter Number 1 Protection Settings | Confirmation (Yes/No) |
| Confirm protection settings in each inverter has  been carried out as per AS4777 and Jemena guidelines |  |
| Confirm protection settings in each inverter as  per AS4777 and Jemena guidelines have been tested |  |

Insert more inverters if required

## Inverter Anti-Islanding Functionality

|  |  |  |
| --- | --- | --- |
| Inverter Number 1 Anti- Islanding Operation | Describe the site-specific steps in testing this functionality | Pass/Fail |
| Disconnect grid from the PV installation  Check disconnection time of inverter is <2 seconds | Refer to test plan at A2-3 |  |
| Restore grid supply  Ensure grid voltage, frequency, phase angles are within acceptable limits  Check reconnection time is  >60 seconds | Refer to test plan at A2-3 |  |

Insert more inverters if required

## Power quality response mode settings

Set and conﬁrm power quality response settings as per DNSP Requirements (Calculated at 230 V).

Please circle as relevant.

|  |  |  |
| --- | --- | --- |
|  |  | Enable/ not enabled |
| New Inverter (s) | Volt-Watt |  |
|  | Volt-Var |  |

|  |  |  |
| --- | --- | --- |
| Control Function | Control Setting | Conﬁrmed (Y/N) |
| V nom-max (10 min) | 258V |  |

Volt/Var response

|  |  |  |
| --- | --- | --- |
| Control Function | Control Setting | Conﬁrmed (Y/N) |
| V1 | 208 V (90.4%) |  |
| V2 | 220 V (95.7%) |  |
| V3 | 241 V (104.7%) |  |
| V4 | 253 V (110%) |  |
| V1 % (lead/lag) | 44 % Leading (+44%) |  |
| V2 % (lead/lag) | 0 |  |
| V3 % (lead/lag) | 0 |  |
| V4 % (lead/lag) | 44 % Lagging (-44%) |  |

Volt/Watt Response

|  |  |  |
| --- | --- | --- |
| Control Function | Control Setting | Conﬁrmed (Y/N) |
| V1 | 207 V (90%) |  |
| V2 | 220 V (95.7%) |  |
| V3 | 253 V (110%) |  |
| V4 | 259 V (112.6%) |  |
| V1 % | 100 % |  |
| V2 % | 100 % |  |
| V3 % | 100 % |  |
| V4 % | 20 % |  |

# Individual Apartment Testing Results

## Apartment No.1

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

## Apartment No.2

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

## Apartment No.3

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

## Apartment No.4

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

## Apartment No.5

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

## Apartment No.6

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |

|  |  |
| --- | --- |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

## Apartment No.7

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

## Apartment No.8

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

## Apartment No.9

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

## Apartment No.10

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

## Apartment No.11

|  |  |
| --- | --- |
| Apartment No. |  |
| NMI |  |

MSB 3P/CB to PVDB 3P/CB

|  |  |
| --- | --- |
|  | Pass/ Fail |
| Continuity test per phase, neutral and earth (MSB CB to PVDB CB) |  |
| IR Test (phase to phase, phase to earth) |  |
| Polarity Test |  |

Insert more information in this format for all apartments/ NMIs

# Installation and Test Declarations

## Installation

By signing this form, you acknowledge and represent that:

the Inverter Energy System complies with the Electricity Safety Act 1998 (Vic) and associated Safety Regulations, the Electricity Distribution Code, the Victorian Service & Installation Rules, AS/NZS3000 (Wiring Rules) and AS4777 (Grid Connection of Energy Systems via Inverters), and any other relevant Acts, regulations, standards or guidelines;

the Inverter Energy System is connected to a dedicated circuit complete with lockable isolating switch at the switchboard;

the main switchboard, isolating fuse/switch/circuit breaker are labelled correctly; commissioning tests as speciﬁed in the Service & Installation Rules have been completed and passed. Alternative supply signage has been installed; a Prescribed Certiﬁcate of Electrical Safety (CES) has been obtained; with copies of the Electrical Works Request and CES to be sent to the Inverter Energy System owner’s Retailer and a copy of this form is to be sent directly to distributor by Installer or Client ; and the Inverter Energy System owner has been advised that the Inverter Energy System should remain switched off until any metering upgrades are complete to avoid potential metering

and billing issues. Once the metering upgrades have been completed, it is the IES owner’s responsibility to turn their Inverter energy system on. All inverters protection settings are done and tested as per the project connection agreement/single line diagram.

**Installer Declaration**

|  |  |
| --- | --- |
| CEC Accredited Installer (name and signature) |  |
| CEC Installer’s accreditation number |  |
| CEC Installer’s license number |  |
| Date |  |

|  |  |
| --- | --- |
| CEC Accredited Designer |  |
| CEC Designer’s Accreditation number |  |
| Electricians Signature |  |
| Electrician’s License Number |  |
| Commissioning technician (name and signature) |  |