Chromagen Australia

Scope of Installation Works - Solar Power

Effective: 1st Sept 2024

Section B. Standard Solar PV (Single Phase)

Scope of works for Solar Power (PV – Photovoltaic) Installation:

All installation components must be in accordance with AS5033, AS3000, AS4777, AS1170.2 complying with all legislated Federal, State and local Government requirements.

The following scope applies to systems installed on the following Distribution networks.
For systems types/sizes not shown below the scope will be agreed on a case by case basis**.**

System Limitations and Notes

System Limitations by Distributor:

Please refer to separate Chromagen Australia documentation covering distributor requirements

IMPORTANT NOTES:

- **Additional costs will apply for connection applications for systems outside of the limitations specified in the table above.**
- **Safe and clear access is required for all works.**
- **Fall protection is the responsibility of the customer**
  The below is required for each according installation:

Single Storey
Pitched Roof (up to 25°)
Guard Rail Protection Required

Double Storey
Pitched Roof (up to 25°)
Platform Edge Protection Required

Double and Three Storey
Flat Roof
Roof Access Hatch Required

- **Additional site visits due to access restriction and / or site not being ready will incur rebooking fees**
- **Stage 1 must be completed after the roof cladding has been installed and prior to any internal plastering/cladding is installed. This is to allow access through the frame for cabling and conduit. Additional costs may apply if access for cabling is restricted or unavailable.**
- **Suitable substrate must be provided in the garage for mounting, allowing up to 45kg for any inverter and up to 25kg for any charger.**
- **No battery will be fully wall mounted and will always sit on the ground.**
- **Pre-approvals are not guaranteed – Whilst Chromagen will facilitate the requirements to apply for pre-approval, they are subject to being accepted or rejected by distributors, which is outside the control of Chromagen. Additional export limiting devices and associated works are not covered under this scope of works.**
- **Pre-approval and connection works excluded on embedded networks.**

WARNING: Not all roof types/materials are suitable for solar PV installations. Systems cannot be installed on slate or sites where asbestos may be present and disturbed.

Standard Solar PV (Single phase)

Stage 1 of 2 - Installation of stage 1 PV

- Complete pre-approval (Not available for systems on embedded networks).
- Complete OH&S paperwork
- Confirm installation works as per plans and work order.
- Rough in DC cabling from panels to inverter location (includes 15m) in approved solar conduit with all labelling as per AS5033.
- Rough in solar array earth bonding
- Rough in AC cabling from switchboard to inverter location (Max 15mtr).
- Rough in data cable for energy meter / dynamic export control.
- Installation of mounting frames in accordance with manufacturer's instructions.
- Installation of PV panels, including earth (WEEB type) washers and clamps in accordance with manufacturer's instructions.
- Connection of PV panels in correct string configuration to disconnection points.
- Take and record photos / scan serial numbers using BridgeSelect.
- Remove all associated rubbish from site.

Stage 2 of 2 – Installation of stage 2 PV

- Complete OH&S paperwork
- Installation of inverter mounting bracket (supplied with inverter) to wall at mounting location.
- Connection of DC cable to inverter (with self-contained DC isolator).
- Connection of AC wiring at inverter and switchboard (includes inverter breaker) and solar array bonding.
- Installation of energy meter or CT meters *(Must be completed where backstop* or export limiting required).*
- Installation of all labelling.
- Take and record photos / serial numbers using BridgeSelect.
- Commissioning and testing of solar system.
- Temporarily connect inverter to the internet and setup online account under the Chromagen portal. Place client connection instruction on the inverter *(This step must be completed where backstop* required).*
  Note: in Victoria the dynamic export limit range will be set to 0kW export
- Completion and submission of the following documents to nominated retailer/distributor:
  - Electrical Works Request (EWR) (Not available for systems on embedded networks).
  - Certificate of Electrical Safety (CES or equivalent as per each State's requirement).
  - PV connection form as per Network Distributor's requirement (Not available for systems on embedded networks) **Note**: The PV Connection form must be counter signed by the system owner.
    For purposes of connection the Customer will be considered the system owner.
  - STC form (SGU) prepared for the owner's signature.
- Arrange external inspection or meter installation where required.
- Remove all associated rubbish from site.

Builder requirement:

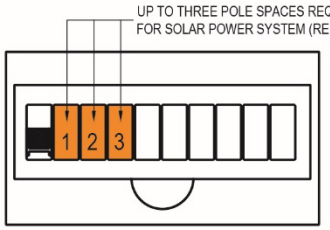
- **Goodwe Inverter (1 phase under 5kW) – One (1) pole spaces required next to main switch.**
- **Goodwe Inverter (1 phase over 5kW) – Three (3) pole spaces required next to main switch.**
- **Fronius Inverter (Single phase) – Three (3) pole spaces required next to main switch.**

***Backstop requirements mandatory in VIC, SA and ACT**

SOLAR POWER SYSTEM REQUIREMENTS

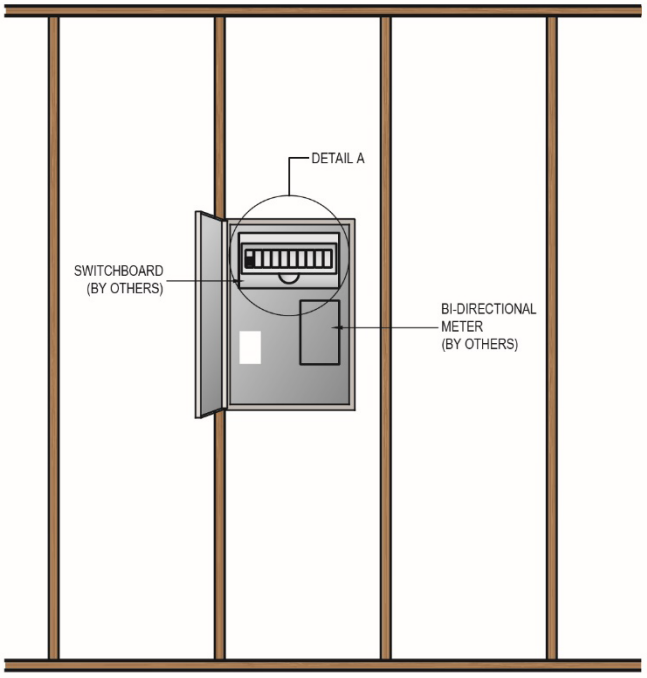
STANDARD INVERTER - SINGLE PHASE

[BUILDER REQUIREMENTS - FRAME STAGE]

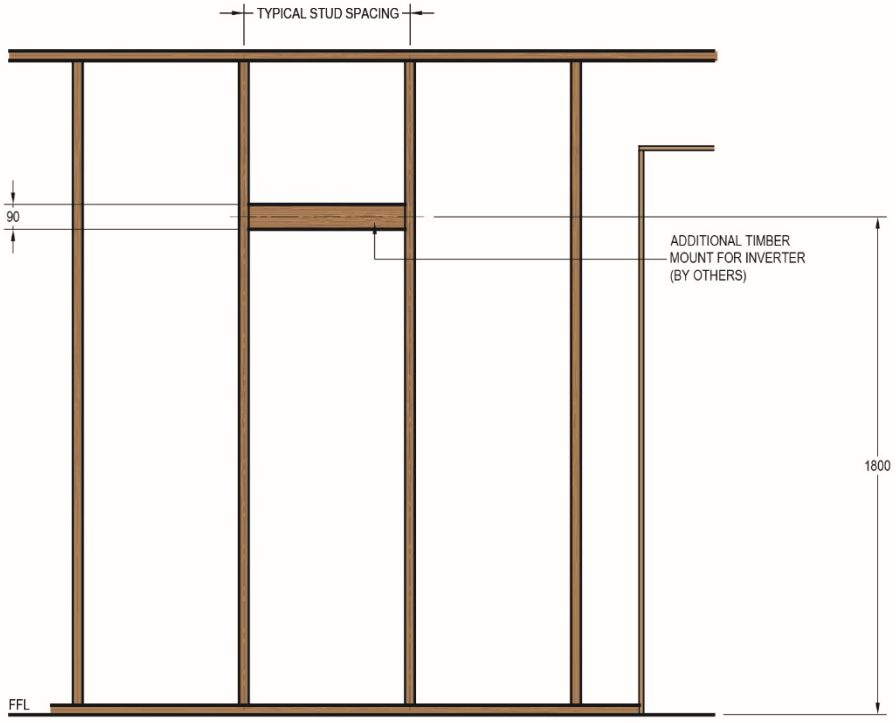


DETAIL A
SWITCHBOARD REQUIREMENTS

POLE SPACE REQUIREMENTS		
GOODWE INVERTER (UNDER 5kW)	**GOODWE INVERTER (OVER 5kW)**	**FRONIUS INVERTER ALL SIZES**
1. SOLAR MAIN SWITCH	1. SOLAR MAIN SWITCH 2-3. CT / METER	1. SOLAR MAIN SWITCH 2-3. CT / METER



FRONT ELEVATION
METER BOX LOCATION
(FRAME STAGE)



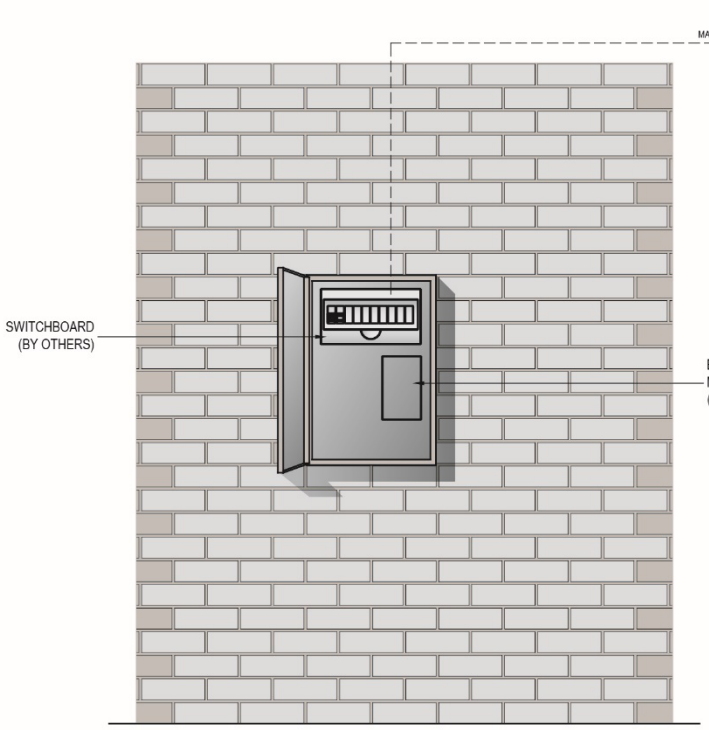
FRONT ELEVATION
INVERTER LOCATION
(FRAME STAGE)

DIMENSIONS IN MM. TO BE USED AS A GUIDE ONLY.

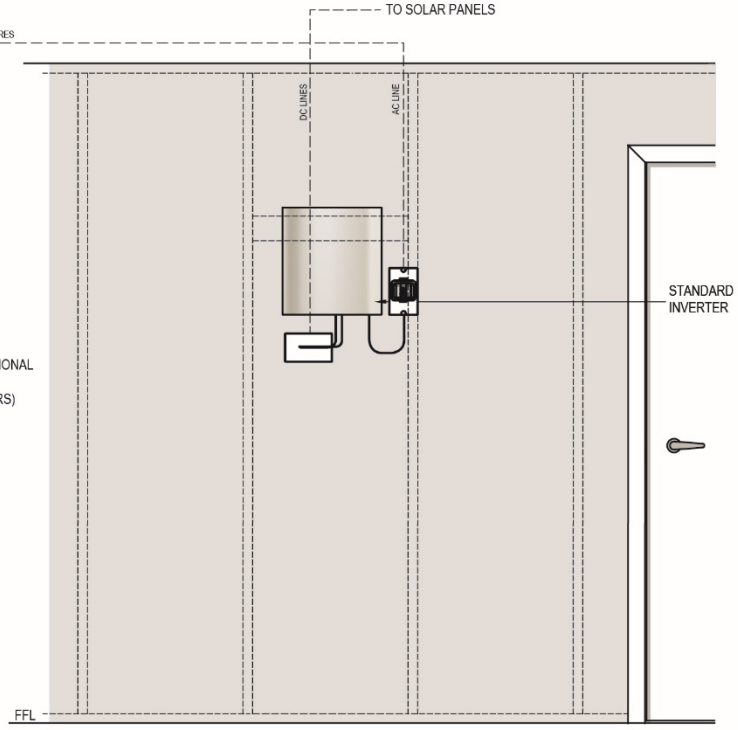
SOLAR POWER SYSTEM REQUIREMENTS

STANDARD INVERTER - SINGLE PHASE

[FINAL INSTALLATION]



FRONT ELEVATION
METER BOX LOCATION
(FINAL INSTALL)



FRONT ELEVATION
INVERTER LOCATION
(FINAL INSTALL)

DIMENSIONS IN MM. TO BE USED AS A GUIDE ONLY. SUITABLE ASSESSMENT OF SITE CONDITIONS TAKE PRECEDENCE AND ARE UP TO THE INSTALLERS DECRETION. ALL INSTALLATIONS MUST ADHERE TO CEC & LOCAL REGULATIONS. STAGE 2 MUST HAVE A LIVE INTENET CONNECTION WITH COMMUNICATION LINES SUITABLY CONNECTED.