

SCHEDULE ONE TO CUSTOMER CONTRACT DOCUMENT

STANDARD INSTALLATION CONDITIONS

PHOTOVOLTAIC SYSTEMS

1. Pre-Installation Site Inspection

- 1.1 Origin (or the Installation Subcontractor) may conduct a pre-Installation site inspection at the Premises to ascertain the most suitable location for Installation of the System and assess whether any additional services or items will be required to complete the Installation.

2. Time for Inspection/Installation

- 2.1 Origin (or the Installation Subcontractor) will contact you to arrange a suitable time for the Installation Subcontractor to undertake a pre-Installation site inspection (if deemed necessary) and/ or for Installation of the System. You must be present during the arranged time for the pre-Installation site inspection (if conducted) and the Installation.

3. Installation Package

- 3.1 Subject to clause 4 of this Schedule, the Installation comprises the installation of the System at the Premises as described in these Standard Installation Conditions in accordance with the manufacturers' guidelines. Subject to clause 4 of this Schedule, the Installation includes:

- (a) the delivery of the System to the Premises on the day of installation;
- (b) the supply and installation of a suitable mounting base for the System;
- (c) the supply and installation of tilt frames (if You have ordered tilt frames);
- (d) installation on a single storey roof (or a double storey roof if You have ordered a double storey installation)
- (e) installation on a tin roof (or a tile roof if You have ordered a tile roof installation)
- (f) the supply of up to 30 metres of electrical cabling between the solar panels, inverter and switchboard;
- (g) testing and commissioning of the System after Installation (in accordance with clause 6 of this Schedule);
- (h) the provision of a certificate of electrical safety (or equivalent)(in accordance with clause 7 of this Schedule); and
- (i) the provision of instruction on the basic operation of the System (in accordance with clause 8 of this Schedule).

4. Exclusions from Installation

- 4.1 The Installation does not include the following:

- (a) the provision of approvals, consents or permits from any person (including, but without limitation, any approval, consent or permit which You are required to obtain from any local council/planning authority, the owner of the Premises or any body corporate under clause 9 of this Schedule);

- (b) the supply and installation of tilt frames (if you have not ordered tilt frames from Origin at the time of contract);
- (c) the supply of more than 30 metres of electrical cable;
- (d) rectification of an inadequate existing electrical supply;
- (e) installing or upgrading a safety switch;
- (f) installing or upgrading a switchboard;
- (g) installing or upgrading a meter panel board;
- (h) any other work that is required to ensure that, prior to installation of the System, the Premises comply with electricity standards imposed by law (see clause 10 of this Schedule);
- (i) work that is required where safe, convenient unhindered access for the installation is not provided;
- (j) any trenching or excavation required for installation;
- (k) installation on buildings other than existing single or double storey homes (see clause 14 of this Schedule) or outbuildings that meet the conditions specified in clause 15 of this Schedule;
- (l) the provision of special access equipment, if required (see clause 16 of this Schedule);
- (m) the removal of asbestos or the costs of an investigation to determine whether asbestos is present;
- (n) installations at remote locations such as islands remote from the mainland;
- (o) installations on homes with unsuitable roofs including; decromastic, brittle and structurally unsound rooves;
- (p) installation of meters to record exported electricity which are the property of the local services provider (see the document headed "Additional Information about Bi-Directional Meters", which is attached to this Schedule); and
- (q) re-wiring for dedicated controlled loads (see clause 19 of this Schedule).

4.2 Origin (or the Installation Subcontractor) will have no obligation to carry out any of the work that is excluded from the Installation unless Origin (or the Installation Subcontractor) agrees that the Installation Subcontractor will carry out that work).

5. Additional Services and/or items

5.1 Prior to Installation of the System, Origin (or the Installation Subcontractor) will advise you of any additional services and/ or items that are not included in the Installation but which are required to complete the Installation.

5.2 You will receive this advice either during the pre-Installation site inspection (if one is conducted) or on the day of Installation (if no pre-Installation site inspection is conducted).

5.3 When you are advised of the additional services and/or items that are not included in the Installation but which are required to complete the Installation, you will also be advised of the cost of those additional services and/or items. You may elect to enter into an

agreement with the Installation Subcontractor (or another third party) for the additional services and/or items.

- 5.4 If additional services and/or items are not undertaken or supplied prior to, or agreed to at, the time for Installation of the System, then the Installation Subcontractor will have no obligation to install the System and this Contract will terminate at that time. If this Contract is terminated for this reason, Origin will provide you with a full refund by cheque.

6. Testing and Commissioning

- 6.1 After installation of the System, the Installation Subcontractor will test/commission the System onsite to confirm that it is compliant with manufacturer's specifications and to ensure the System is fully operational (excludes meter changeover).

7. Certificate of Electrical Safety

- 7.1 On satisfactory completion of the Installation, the Installation Subcontractor will provide a certificate of electrical safety (or equivalent) which certifies that the System has been installed to the requirements of Australian Standards and relevant laws.

8. Operating Instructions

- 8.1 On the day of testing the System, the Installation Subcontractor will instruct you on the basic operation of the System.

9. Pre-Installation Approvals

- 9.1 You are required to obtain all relevant approvals, consents, and permits prior to Installation from Your local council/planning authority and, if applicable, Your body corporate. If You do not own the Premises, you must also ensure that you get written permission from the owner and provide this authority to Origin as soon as possible, by posting it to:

Origin Solar Customer Administration

GPO Box 186c

Melbourne VIC 3001

10. Compliance with Electrical Standards

- 10.1 You must ensure that the Premises (including any out-building, such as a shed, carport or garage) comply with electricity standards imposed by law prior to Installation.
- 10.2 If the Premises do not comply with electricity standards imposed by law, you must arrange (at your cost) for a qualified electrician to rectify the fault(s). The type of works that an electrician may need to carry out to ensure that the Premises is compliant, may include, but is not limited to, the following:
- rectifying inadequate existing electrical supply;
 - installing a safety switch;
 - upgrading a switchboard;
 - upgrading of meter panel board;
 - additional works where there is insufficient room in the meter box for a gross meter for the measuring of exported electricity; or
 - works to the meter box where a meter box is non-compliant.

11. Access

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- 11.1 You must ensure that both Origin and the Installation Subcontractor (together with any vehicle and equipment) has safe, convenient and unhindered access to the meter box, switchboard, proposed inverter location and the roof where the System is to be mounted during any pre-Installation site inspection and/ or installation.
- 11.2 If you think that access may be an issue, please inform Origin (or the Installation Subcontractor) when you are contacted to arrange the pre-Installation site inspection or, if no pre-Installation site inspection is to be conducted, the Installation.

12. Requirements for Roof Area

- 12.1 The roof area must be structurally sound and large enough to accommodate the size and weight of the System and mounting base/frames:

Panel	Model No	Size l x h x w (mm)	Weight per panel (kg)
200w	TSM-200 DC/DA01a	1581 × 809 × 40mm	15.6kg
230w	TSM-230 PC/PA05	1650 × 992 × 40mm	19.5kg

Mounting base	Roof pitch	Approx Weight (kg)
Mounting base	Pitched	Approx 20kg
Frames	Flat	Approx 5kg per panel*

**Based on frames weighing approximately 40kg for a 1.6kw system with 8 panels*

- 12.1 The roof area must have suitable north, north east or north-west aspect to accommodate the System. Installations on east or west facing roofs may result in reduced outputs.
- 12.3 The roof must be safe and suitable for the Installation of the System. It is your responsibility to ensure that the roof is safe and suitable for the Installation.

13. Tilt Frames

- 13.1 Tilt frames are required where roof pitch is less than 10 degrees, including where your roof is flat. If you have not ordered tilt frames from Origin at the time of contract, you may need to arrange for the installation of tilt framing. If the pre-Installation site inspection reveals that tilt framing is required, the Installation Subcontractor can install tilt framing under a separate contract, between you and the Installation Subcontractor, for an additional charge.

14. Height Restrictions

- 14.1 Installations are only available to existing single or double storey homes. Due to safety considerations, Installations may not be possible on double storey premises where Installation is required close to the edge or where there is a drop greater than 6m.
- 14.2 For new homes, Installations can only take place once the Premises have reached 'lock up stage'.

15. Installation on Outbuildings

15.1 The Installation Subcontractor will only install the System on an out-building that is disconnected from your house (such as a shed, carport, garage or other external structure) if the following conditions are met:

- a compliant switchboard is installed;
- electrical cables are not exposed or overhanging between the outbuilding and Your house; and
- necessary electrical upgrades have taken place.

16. Special Access Equipment

16.1 Special access equipment may be required to lift/move solar panels to the desired location for Installation, and/ or to install solar panels where roof pitch is between 30 to 45 degrees. This may include boom lifts, cherry pickers, cranes or scaffolding.

17. Installation on Steep Rooves

17.1 Due to safety considerations, installations may not be possible on steep roofs (including here roof pitch is between 30 to 45 degrees).

18. Installation on Slate or Asbestos Rooves

18.1 Installation is not available to homes with slate or asbestos roofing.

19. Dedicated Controlled Loads

19.1 The Installation does not include work for dedicated controlled loads (includes dedicated slab heating, hot water or climate saver tariffs) to be re-wired into a single phase and single element meter configuration prior to a solar meter being installed.

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ADDITIONAL INFORMATION ABOUT BI-DIRECTIONAL METERS

The Installation of the System does not include the installation of meters to record exported electricity, which will attract an additional charge. This document contains information about bi-directional meters in each State.

This document does not form part of your Contract with Origin but is a separate document provided for information only.

- **New South Wales and ACT**

- **Additional charges may apply** for the installation of gross / bi-directional meter. Costs associated with the installation of the new meter to record exported electricity will vary dependant on the distance from your inverter to the meter location. The new meter must be installed by an Accredited Service Provider (ASP). A quote may be sought from Origin's subcontracted installer (if accredited) at the time of booking in your solar installation, or from a third party ASP (refer to the schedule of additional services and/or items).
- A gross / bi-directional meter must be installed in the main meter box as there needs to be a direct connection to the distribution network. (Connecting the solar installation / inverter to a sub board would result in some of the renewable power generated being used by other devices that are also connected to the sub board and this make the installation ineligible for the gross feed-in tariff).
- Where existing metering is detached from the building of the solar installation and you wish to receive a gross feed-in tariff, additional charges will be incurred by you to connect the solar installation/inverter directly to the location of the gross meter. Alternatively you may consider having the solar installation / inverter connected to your switchboard, this would still require the replacement of your current meter with a bi-directional meter but would enable the installation to be eligible for a net feed-in tariff. Consultation with your electricity retailer is advised to understand the differences between gross and net feed-in tariffs and the applicable rates under each scheme.
- The installation of solar in both Energy Australia and Country Energy distribution patches may result in a switch to a time of use tariff.

- **Victoria**

- Additional charges may apply for the installation of a bi-directional meter that can read exported electricity (which will be shown on your electricity bill). Meters are the property of the Local Network Service Property (LNSP). Installation charges vary per LNSP (in most instances charges are referred to as truck fees and may appear on the customer's retailer electricity bill). Please contact your electricity retailer for charges that may apply.
- To receive a feed-in tariff you must accept either a Standard or Premium agreement from your electricity retailer. If you choose to accept the Premium agreement and currently receive Off-Peak for electric hot water or slab heating and/or have a Climate Saver tariff, you will require a bi-directional interval meter to be installed. This may result in a change to a Time of Use consumption tariff in some instances. Under a Time of Use Tariff any afternoon boost for hot water or Climate Saver will be removed. A time switch can be installed at the switchboard to restrict the appliances to operate only during the Off-Peak times of the tariff.

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- **All other States and Territories**

- Additional charges may apply for the installation of a bi-directional meter that can read exported electricity (which will be shown on your electricity bill). Meters are the property of the Local Network Service Property (LNSP). Installation charges vary per LNSP (in most instances charges are referred to as truck fees and may appear on the customer's retailer electricity bill). Please contact your electricity retailer for charges that may apply.

As bi-directional meters are rolled out across Australia it is not always necessary to change over these meters once solar has been installed. In most cases a bi directional meter can be reprogrammed to read export. Please see your relevant distributor regarding this cost.

Origin will not guarantee that customers who install solar systems will be eligible for feed in tariffs. Eligibility requirements will vary by electricity retailer, LNSP and legislative requirements for each state.

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