



ACT
Government

Chief Minister, Treasury and
Economic Development

Freedom of Information Disclosure Log Publication Coversheet

The following information is provided pursuant to section 28 of the *Freedom of Information Act 2016*.

Application Details	
Ref. No.	CMTEDDFOI 2024-110
Date of Application	25 March 2024
Date of Decision	29 May 2024
Processing time (in working days)	43
Fees	Waived
Decision on Access	Partial Release
Information Requested (summary)	Information relating to a fire at a property in Denman Prospect.
Publication Details	
Original application	<input checked="" type="checkbox"/> Published <input type="checkbox"/> N/A
Decision notice	<input checked="" type="checkbox"/> Published <input type="checkbox"/> N/A
Documents and schedule	<input checked="" type="checkbox"/> Published <input type="checkbox"/> N/A
Decision made by Ombudsman	N/A
Additional information identified by Ombudsman	N/A
Decision made by ACAT	N/A
Additional information identified by ACAT	N/A

From: [REDACTED]
To: [CMTEDD.FOI](#)
Subject: CMTEDDFOI 2024-110 - FOI Request regarding fire to property at [REDACTED], Denman Prospect, ACT | LP[89419]
Date: Monday, 25 March 2024 9:49:55 AM
Attachments: [FOI Request.pdf](#)

You don't often get email from [REDACTED]. [Learn why this is important](#)

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Dear Sir

Please find **attached** our FOI Request.

We look forward to receiving the requested information/documents.



[REDACTED]

[REDACTED]

25 March 2024

Attention: The FOI Information Officer

Chief Minister, Treasury and Economic Development Directorate
Level 2 Canberra Nara Centre
1 Constitution Avenue **CANBERRA ACT**

By post and email: CMTEDDfoi@act.gov.au

Dear Sir,

Our client: [REDACTED]
Date of Incident: 13 October 2018
Place of Incident: [REDACTED], Denman Prospect ACT
Circumstances: Fire damage to property

We act on behalf of [REDACTED], the owner of the property located at [REDACTED], Denman Prospect ACT (**Property**).

On 13 October 2018 a fire occurred at the Property causing damage to the same.

We have been advised that the ACT Fire Brigade attended the Property on 13 October 2018 in response to a 000 call regarding a fire at the Property. The Fire Brigade reference number is 073195-13102018-0.

We have been advised that Access Canberra Electrical Inspector, Ray Gorrell, attended the Property on or about 13 October 2018 and provided his on the point of origin of the fire.

Pursuant to the *Freedom of Information Act* 2016, we request you provide all information relating to the incident, including but not limited to:

1. All written documentation, including site notes, file notes and reporting prepared by Ray Gorrell or Access Canberra in relation to the fire at the Property.
2. All email correspondence between Ray Gorrell or Access Canberra and the ACT Fire Brigade regarding the fire at the Property.
3. Any further information or documentation held by Ray Gorrell or Access Canberra in relation to the fire at the Property.

We look forward to receiving the above information within the prescribed period.

Yours sincerely,

[REDACTED]

[REDACTED]



ACT
Government

Chief Minister, Treasury and
Economic Development

Our ref: CMTEDDFOI 2024-110



FREEDOM OF INFORMATION REQUEST – NOTICE OF DECISION

I refer to your application under section 30 of the *Freedom of Information Act 2016* (the Act), received by the Chief Minister, Treasury and Economic Development Directorate (CMTEDD) on 25 March 2024.

Specifically, you have sought access to the following information:

- *“We act on behalf of [REDACTED], the owner of the property located at [REDACTED], Denman Prospect ACT (Property). On 13 October 2018 a fire occurred at the Property causing damage to the same. We have been advised that the ACT Fire Brigade attended the Property on 13 October 2018 in response to a 000 call regarding a fire at the Property. The Fire Brigade reference number is 073195-13102018-0.*

We have been advised that Access Canberra Electrical Inspector, Ray Gorrell, attended the Property on or about 13 October 2018 and provided his on the point of origin of the fire.

Pursuant to the Freedom of Information Act 2016, we request you provide all information relating to the incident, including but not limited to:

- 1. All written documentation, including site notes, file notes and reporting prepared by Ray Gorrell or Access Canberra in relation to the fire at the Property.*
- 2. All email correspondence between Ray Gorrell or Access Canberra and the ACT Fire Brigade regarding the fire at the Property.*
- 3. Any further information or documentation held by Ray Gorrell or Access Canberra in relation to the fire at the Property.”*

Authority

I am an Information Officer appointed by the CMTEDD Director-General under section 18 of the Act to deal with access applications made under Part 5 of the Act.

Timeframes

In accordance with section 40 of the Act, CMTEDD is required to provide a decision on your access application within 30 days.

As this matter required third party consultation, the decision due date was extended by 15 working days, in accordance with section 40(2) of the Act.

Therefore, a decision is due by **31 May 2024**.

Decision on access

Searches of CMTEDD records have identified four documents within the scope of your request.

I have decided to grant **partial access** to all documents.

The records identified as relevant to your application are listed in the schedule enclosed at **Attachment A**. This provides a description of each document that falls within the scope of your request and the access decision for each of those documents.

Release of documents

The information being released to you is provided at **Attachment B**.

Statement of Reasons

In accordance with section 54(2) of the Act a statement of reasons outlining my decisions is below. In reaching my access decisions, I have taken the following into account:

- the Act
- the information that falls within the scope of your request
- the views of third parties
- the *Human Rights Act 2004*

As a decision maker, I am required to determine whether the information within scope is in the public interest to release. To make this decision, I am required to:

- assess whether the information would be contrary to public interest to disclose as per **Schedule 1** of the Act.
- perform the public interest test as set out in section 17 of the Act by balancing the factors favouring disclosure and factors favouring non-disclosure in **Schedule 2** of the Act.

Exemptions claimed

Public Interest Test

The Act has a presumption in favour of disclosure. As a decision maker I am required to decide where, on balance, public interests lies. As part of this process, I must consider factors favouring disclosure and non-disclosure.

In *Hogan v Hinch* (2011) 243 CLR 506, [31] French CJ stated that when 'used in a statute, the term [public interest] derives its content from "the subject matter and the scope and purpose" of the enactment in which it appears'. Section 17(1) of the Act sets out the test, to be applied to determine whether disclosure of information would be contrary to the public interest. These factors are found in subsection 17(2) and Schedule 2 of the Act.

Schedule 2: Factors to be considered when deciding the public interest.

Taking into consideration the information contained in the documents found to be within the scope of your request, I have identified that the following public interest factors are relevant to determine if release of the information contained within these documents is within the 'public interest'.

Factors favouring disclosure (Section 2.1)

- *Section 2.1(a)(xiii) - contribute to the administration of justice generally, including procedural fairness.*

Having considered the factors identified as relevant in this matter, I consider that release of the information contained in these documents may contribute to the administration of justice generally by allowing you to have a copy of the documents. I am satisfied that this factor favouring disclosure carries some weight. However, this factor is to be balanced against the factors favouring non-disclosure.

Factors favouring non-disclosure (Section 2.2)

- *Section 2.2(a)(ii) - prejudice the protection of an individual's right to privacy or any other right under the Human Rights Act 2004.*
- *Section 2.2(a)(xi) - prejudice trade secrets, business affairs or research of an agency or person.*

Having reviewed the documents, I consider that the protection of an individual's right to privacy, especially in the course of dealings with the ACT Government is a significant factor as the parties involved have provided their personal information for the purposes of working with the ACT Government. This, in my opinion, outweighs the benefit which may be derived from releasing the personal information of the individual's involved in this matter.

Individuals are entitled to expect that the personal information they have supplied as part of this process will be dealt with in a manner that protects their privacy. Considering the type of information to be withheld from release, I am satisfied that the factors in favour of release can still be met while protecting the personal information of the individuals involved. I therefore weigh the factor for nondisclosure more highly than the factor in favour of release in this instance. As a result, I have decided that release of this information (names, phone numbers, email addresses and signatures of individuals not employed by the ACT Public Service) could prejudice their right to privacy under the *Human Rights Act 2004*.

I have also considered the impact of disclosing information which relates to business affairs. In the case of *Re Mangan and The Treasury* [2005] AATA 898 the term 'business affairs' was interpreted as meaning 'the totality of the money-making affairs of an organisation or undertaking as distinct from its private or internal affairs'. Schedule 2 section 2.2(a)(xi) allows for government information to be withheld from release if disclosure of the information could reasonably be expected to prejudice the trade secrets, business affairs or research of an agency or person. The information withheld from release could reasonably

be expected to unfairly prejudice the business affairs of a third party, along with unwanted commercial implications.

Having applied the test outlined in section 17 of the Act and deciding that release of personal information contained in the documents is not in the public interest to release, I have chosen to redact this specific information in accordance with section 50(2). Noting the pro-disclosure intent of the Act, I am satisfied that redacting only the information that I believe is not in the public interest to release will ensure that the intent of the Act is met and will provide you with access to the majority of the information held by CMTEDD within the scope of your request.

Charges

Processing charges are applicable for this request because the total number of pages to be released to you exceeds the charging threshold of 50 pages. However, the charges have been waived.

Online publishing – Disclosure Log

Under section 28 of the Act, CMTEDD maintains an online record of access applications called a [disclosure log](#).

Your original access application and my decision will be published on the CMTEDD disclosure log. Your personal contact details will not be published.

Ombudsman Review

My decision on your access request is a reviewable decision as identified in Schedule 3 of the Act. You have the right to seek Ombudsman review of this outcome under section 73 of the Act within 20 working days from the day that my decision is published, or a longer period allowed by the Ombudsman.

We recommend using this form [Applying for an Ombudsman Review](#) to ensure you provide all of the required information. Alternatively, you may write to the Ombudsman at:

The ACT Ombudsman
GPO Box 442
CANBERRA ACT 2601

Via email: actfoi@ombudsman.gov.au

ACT Civil and Administrative Tribunal (ACAT) Review

Under section 84 of the Act, if a decision is made under section 82(1) on an Ombudsman review, you may apply to the ACAT for review of the Ombudsman decision. Further information may be obtained from the ACAT at:

ACT Civil and Administrative Tribunal
GPO Box 370
Canberra City ACT 2601
Telephone: (02) 6207 1740
<http://www.acat.act.gov.au/>

Should you have any queries in relation to your request please contact the Information Access Team by telephone on 6207 7754 or email CMTEDDFOI@act.gov.au.

Yours sincerely

Handwritten signature of Emma Hotham, consisting of the letters 'EH' in a stylized, cursive font.

Emma Hotham

Information Officer

Chief Minister, Treasury and Economic Development Directorate

29 May 2024



ACT
Government

Chief Minister, Treasury and
Economic Development

FREEDOM OF INFORMATION REQUEST SCHEDULE

WHAT ARE THE PARAMETERS OF THE REQUEST

Reference NO.

1. All written documentation, including site notes, file notes and reporting prepared by Ray Gorrell or Access Canberra in relation to the fire at the Property.
2. All email correspondence between Ray Gorrell or Access Canberra and the ACT Fire Brigade regarding the fire at the Property.
3. Any further information or documentation held by Ray Gorrell or Access Canberra in relation to the fire at the Property.

CMTEDDFOI 2024-110

Ref No	Page number	Description	Date	Status	Reason for Exemption	Online Release Status
1	1-2	Email	16 Oct 2018	Partial release	Sch 2 s2.2 (a)(ii)	Yes
2	3-4	Email trail	26 Oct 2018	Partial release	Sch 2 s2.2 (a)(ii) Sch 2 s2.2 (a)(xi)	Yes
3	5-13	Email with attachments	2 Sep 2020	Partial release	Sch 2 s2.2 (a)(ii)	Yes
4	14-56	Various photos of incident	Undated	Partial release	Sch 2 s2.2 (a)(ii)	Yes
Total No of Docs						
4						

From: "Gorrell, Raymond" <Raymond.Gorrell@act.gov.au>
Sent: 16/10/2018 9:08 AM
To: "ONeill, Peter" <Peter.ONeill@act.gov.au>
Cc: "Mosslar, Michael" <Michael.Mosslar@act.gov.au>; "Viney, Barry" <Barry.Viney@act.gov.au>; "Mecham, Andrew" <Andrew.Mecham@act.gov.au>
Subject: Report On Fire Incident – [REDACTED] Denman Prospect ACT

Hi Pete,

Could you please review the following report and give me any feedback you feel is required ?

I will attach photos in a table format and add the letter head once you are happy with the general text of the report. I will also airdrop the photos with their geo-tag to Barry at tomorrow's meeting.

Report On Fire Incident – [REDACTED] Denman Prospect ACT

On-Call Inspector

Ray Gorrell
Electrical Installation Inspector
Access Canberra

Type of Inspection:

Assist ACT Fire & Rescue with investigation of house fire

Location of Incident:

[REDACTED] Denman Prospect ACT

Date & Time of Incident:

10:50 am, 13 October 2018

At 1.07 pm on Saturday 13th October 2018, I received a request from Alan Swan of the ACT Fire & Rescue requesting my attendance on site to assist in the investigation of an incident involving a fire at [REDACTED] Denman Prospect ACT. He had requested that I make contact with Sam Evans, the ACT Fire & Rescue Commander in charge of fire fighting operations at the site.

On site I was met by Sam Evans, (Contact: [Sch 2.2\(a\)\(ii\)](#)), who informed me that there had been a fire in the premises and requested that I examine the electrical installation to assist in determining how fire damaged electrical equipment might relate to the fire and whether there was any evidence that fire may have been initiated by an electrical fault. No occupants had been injured in the fire.

The electrical installation that I observed was of a single storey residence with an underground three phase supply. The Meter Box/Main Switchboard was in good order with no fire or heat damage. The three Service/Meter Protective Devices cartridges had been removed from their bases, the service was tested and found to be de-energised, and the normal supply main switch and a single pole solar supply main switch were found to be in the off position. Although neither of these devices were labeled in accordance with AS/NZS 5033:2014, other signage on the meter box indicated the presence of a Photo Voltaic Array. There was also a Dossier for the PV Array in the meter box which was branded with the "ActewAGL Solar" logo. I was also advised by crew members that the solar panels had been applied with a polyvinyl block-out.

I was escorted inside the garage of the residence by two members of the Fire & Rescue Crew, and they directed me to view a location they suspected was the seat of the fire. This location was within the garage of the residence on a wall directly behind the location of the Meter Box/Main Switchboard at approximately 1.0 to 1.5 meters above floor level. My observations were that the internal roof space of the building had been extensively damaged by fire and there was no remaining component of the electrical installation above ceiling level that was not substantially fire damaged. The ceiling throughout the house was no longer in situ, however it was noted that electrical accessories and wiring below ceiling level appeared to be only heat or smoke damaged. The location I was directed to however, did exhibit extensive fire damage, including damage to the timber framing within the wall cavity and to a gas pipe which was located in very close proximity. Electrical equipment in this location included what appeared to be the remains of the Solar Array DC Isolator and the Solar Array AC Isolator. Above that was a "Solax" inverter which showed evidence of being fire damaged by a source below it. Although extensively damaged, the AC Isolator showed evidence of also of having been damaged by an external source of fire and or heat, with the isolator mechanism still being recognisable. The DC Isolator showed a far greater level of destruction with neither the enclosure or the isolator mechanism being identifiable. Remnants of the DC conductors however could be identified, and there was further evidence that they had been terminated within the enclosure as the tunnel terminations were still connected to the ends of some conductors. One of the conductors however, was found with no terminal connected to the cable.

The Solar DC array wiring originating at the roof top isolator and terminating at the Solar Array DC Isolator, was routed via the external wall cavity directly behind the inverter and was located immediately adjacent to a natural gas pipe also installed within the wall cavity. The gas pipe had appeared to have ruptured at some point in the progress of the fire. Information contained in the dossier for the PV Array indicated the DC Isolator was a PGK model SEO 30A, 1000 Volt DC, 32 Amp rated isolator and this was appropriate for the installation. This was consistent with other installations in the neighbourhood that had been carried out by the same installer in the same period.

In conclusion, all of the evidence that I viewed during my inspection was consistent with ACT Fire & Rescue's assertion that the Solar Array DC Isolator may have been the source of ignition for the house fire. Other Observations included that there was no smoke detector in the garage. This is not a requirement of any Australian Standard, however the presence of an interconnected smoke detector, especially where DC equipment is installed within the confines of a building may allow occupants to be alerted earlier.

Ray Gorrell | Electrical Inspector

Phone 02 6207 7775 | Mobile Sch 2.2(a)(iii)

Construction and Workplace Protection | Access Canberra | ACT Government

Mitchell Customer Service Centre, 8 Darling Street, Mitchell ACT 2911 |

GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au>

From: "Gorrell, Raymond"
Sent: 26/10/2018 3:10 PM
To: Sch 2.2(a)(ii)
Cc: Sch 2.2(a)(ii)
"Mosslar, Michael" <Michael.Mosslar@act.gov.au>
Subject: Re: ActewAGL Solar - Questions regarding fire at [redacted] Denman Prospect
Attachments: image001.png

Good afternoon [redacted],

The owner of the property at [redacted] had requested that I take a look at her Solar DC Isolator and AC isolator as she had a number of issues with them including that they were hot to touch.

I inspected the isolators and did not find them to be hot, but I did find that the DC isolator's cover to have not been secured and the cable gland entry for the DC cables also not tightened.

The homeowner brought up several other issues, however I identified them as commercial issues and advised her to seek assistance through fair trading.

I advised [redacted] about the electrical safety issues on 15 October and he agreed that he would have someone attend to them immediately.

Ray Gorrell | Electrical Inspector
Phone 02 6207 7775 | Mobile [redacted]
Construction and Workplace Protection | Access Canberra | ACT Government
Mitchell Customer Service Centre, 8 Darling Street, Mitchell ACT 2911 |
GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au>

On 26 Oct 2018, at 1:07 pm, [redacted] wrote:

Hi Ray,

I have spoken to Michael Mossler who has confirmed that we will need to request the report you provided to ACT Fire and Rescue through a FOI request, so I understand that you won't be able to send this to me.

I have however been advised that you checked the solar installations at a number of properties in the vicinity of [redacted] Denman Prospect and found a number of issues. Can you please advise what these problems were so that they can be addressed.

Regards,

[redacted]

From: [redacted]
Sent: Friday, 26 October 2018 12:45 PM
To: 'Raymond.Gorrell@act.gov.au' <Raymond.Gorrell@act.gov.au>
Cc: [redacted]
'Michael.Mosslar@act.gov.au' <Michael.Mosslar@act.gov.au>
Subject: ActewAGL Solar - Questions regarding fire at [redacted] Denman Prospect

Hi Ray,

I have received a report from ACT Fire and Rescue today regarding the house fire at [redacted] Denman Prospect.

The solar power system at the property was installed by [redacted] who is an electrical contractor for ActewAGL Solar. It had been installed and in operation since the middle of 2017 and was inspected by Graham Kidd on 25/06/2017.

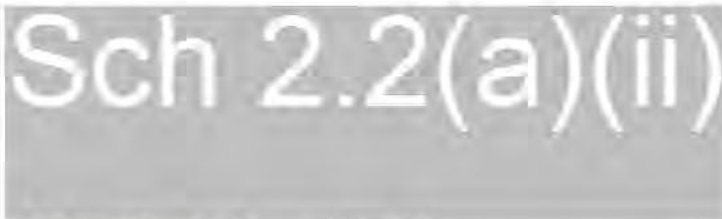
The report advises that your opinion was sought as to the cause of the fire and that it was determined the fire was the result of the solar isolator below the inverter and that the fire was accidental.

Are you able to provide a report that confirms what led you to this finding, which isolator was the cause, in your opinion what happened to the isolator that caused a fire to start and spread and what is meant by accidental.

We are keen to ensure that we fully understand what led to this incident and greatly appreciate your assistance in this regards.

If you have any questions, please let me know.

Regards



PO Box 250, Civic Square ACT 2608
actewagl.com.au

<image001.png>

***** *PLEASE
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From: "Gorrell, Raymond" <Raymond.Gorrell@act.gov.au>
Sent: 02/09/2020 7:07 AM
To: "Mosslar, Michael" <Michael.Mosslar@act.gov.au>
Subject: 20181013 - Report on Fire Incident - [REDACTED], Denman Prospect
ACT - Ray Gorrell
Attachments: 20181013 - Report on Fire Incident - [REDACTED], Denman Prospect
ACT - Ray Gorrell (A17584367).pdf, ATT00001.htm

Please find attached report on fire incident at [REDACTED] Denman Prospect. I have not made any changes.



ACT
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Economic Development

Report on Fire Incident – [REDACTED] Denman Prospect ACT

On-Call Inspector

Ray Gorrell
Electrical Installation Inspector
Access Canberra

Type of Inspection:

Assist ACT Fire & Rescue with investigation of house fire

Location of Incident:

[REDACTED] Denman Prospect ACT

Date & Time of Incident:

10:50 am, 13 October 2018

At 1.07 pm on Saturday 13th October 2018, I received a request from Alan Swan of the ACT Fire & Rescue requesting my attendance to assist in the investigation of an incident involving a fire at [REDACTED] Denman Prospect ACT. He requested that I make contact with Sam Evans, the ACT Fire & Rescue Commander in charge of fire fighting operations at the site.

On site I was met by Sam Evans, [Sch 2.2(a)(ii)], who informed me that there had been a fire in the premises and requested that I examine the electrical installation to assist in determining how fire damaged electrical equipment might relate to the fire and whether there was any evidence that the fire may have been initiated by an electrical fault.

The electrical installation that I observed was of a single storey residence with an underground three phase supply. The Meter Box/Main Switchboard was in good electrical order with no fire or heat damage. The cartridges of the three Service/Meter Protective Devices (SPD/MPDs) were found to have been removed from their bases, and the line side of the SPD/MPDs was tested and found to be de-energised. The Normal Supply Main Switch and a single pole Solar Supply Main Switch were found to be in the 'off' position.

Although neither of these devices were labelled in accordance with AS/NZS 5033:2014, other signage on the meter box indicated the presence of a Photo Voltaic Array. There was also a Dossier for the PV Array in the meter box, and I was also advised by crew members that for safety reasons the solar panels had been applied with a polyvinyl block-out.

I was escorted inside the garage of the residence by two members of the Fire & Rescue Crew, and they directed me to view a location they suspected was the seat of the fire. This was within the garage of the residence on a wall directly behind the Meter Box/Main Switchboard at approximately 1.0 to 1.5 meters above floor level. My observations revealed that the internal roof space of the building had been extensively damaged by fire and there was no remaining component of the electrical installation above ceiling level that was not substantially fire damaged. The ceiling throughout the house was no longer insitu, however it was further noted that electrical accessories and wiring below ceiling level appeared to be only heat or smoke damaged.

The location I was directed to however, did exhibit extensive fire damage, including damage to the timber framing within the wall cavity and to a gas pipe which was located in very close proximity. The gas pipe had appeared to have ruptured at some point in the progress of the fire. Electrical equipment in this location included what appeared to be the remains of the Solar Array DC Isolator and the Solar Array AC Isolator. Above that was a "Solax" inverter which showed evidence of being fire damaged by a source below it.

Although extensively damaged, the AC Isolator showed evidence of also of having been damaged by an external source of fire and or heat, with the isolator mechanism still being recognisable. The DC Isolator showed a far greater level of destruction with neither the enclosure nor the isolator mechanism being identifiable. Remnants of the DC conductors however could be identified, and there was further evidence that they had been terminated within the enclosure as the isolator terminals were still connected to the ends of some conductors. One of the conductors, notably, was found with no terminal connected to the cable end.

The Solar DC array wiring originating at the roof top isolator and terminating at the Solar Array DC Isolator, was routed via the external wall cavity directly behind the inverter and was located immediately adjacent to the natural gas pipe also installed within the wall cavity.

Information contained in the dossier for the PV Array indicated the DC Isolator was a PGK model SEO 30A, 1000 Volt DC, 32 Amp rated isolator and this was appropriate for the installation. This was consistent with other installations in the neighbourhood that had been carried out by the same installer in the same period.

In conclusion, all of the evidence that I viewed during my inspection was consistent with ACT Fire & Rescue's assertion that the Solar Array DC Isolator may have been the source of ignition for the fire.

Photographs

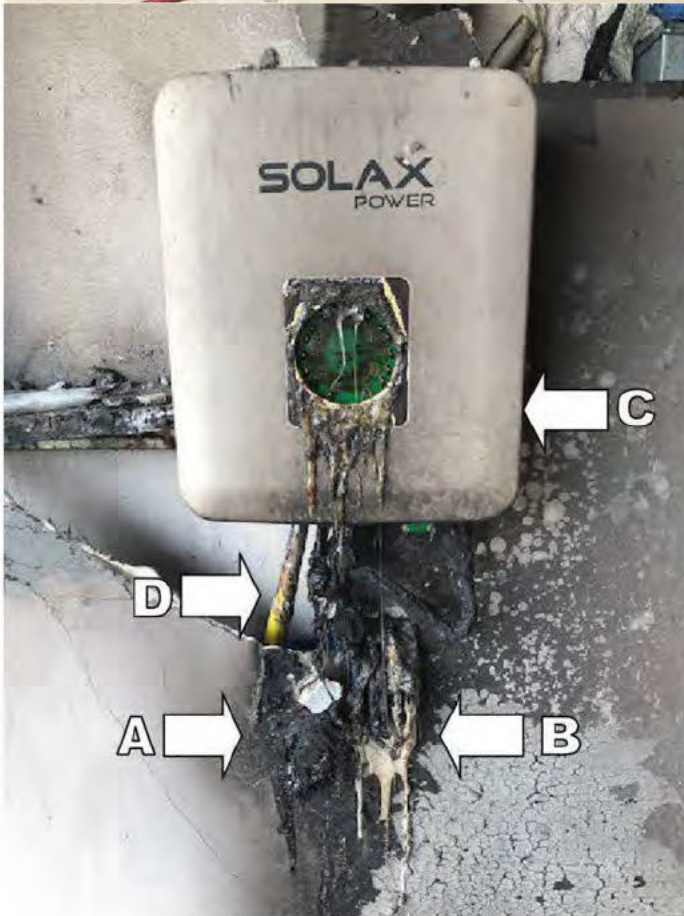


Scene of the fire:

Denman Prospect ACT

A – Location of Meter Box

B – Location of suspected seat of the fire



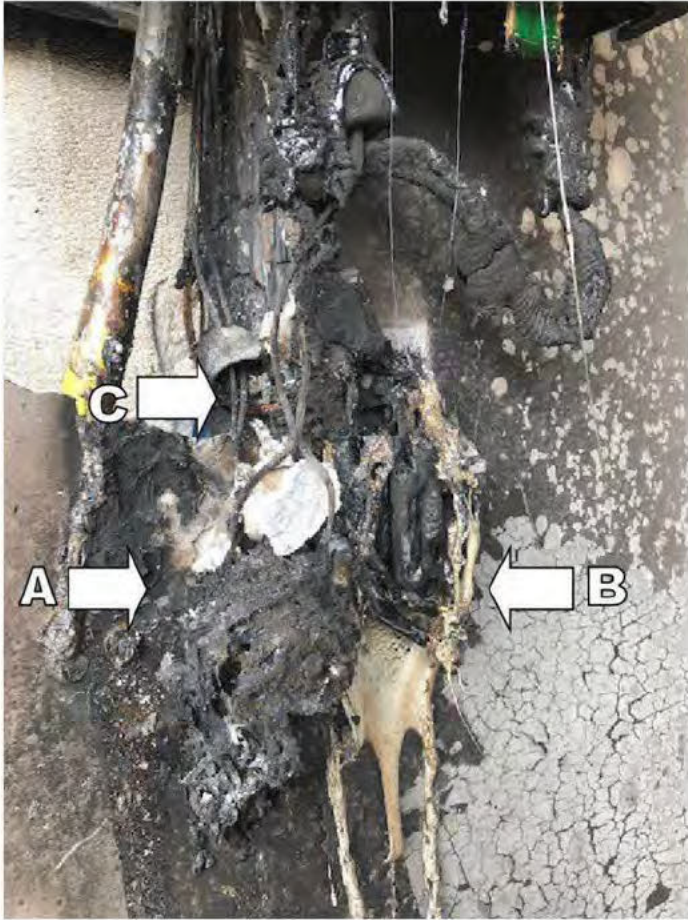
The location of the suspected seat of the fire: Electrical equipment in this location includes

A- Solar Array DC Isolator

B - Solar Array AC Isolator

C - "Solax" inverter

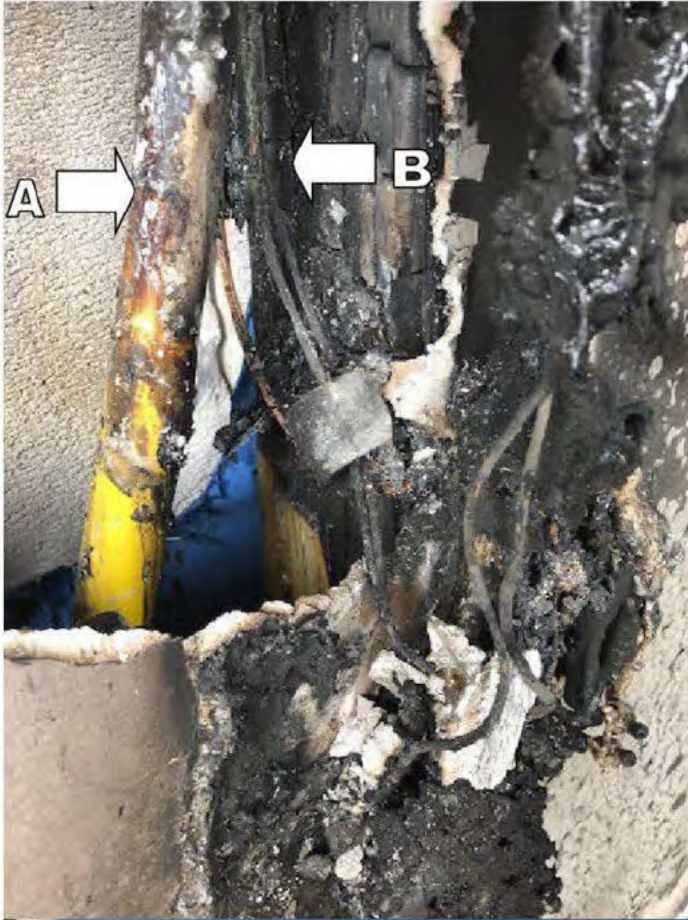
D – Gas Pipe



Closer view of the location of the suspected seat of the fire:
Electrical equipment in this location includes
A- Solar Array DC Isolator
B - Solar Array AC Isolator
C – Remains of DC cables



Closer view of Solar Array DC Isolator showing:
A – Remains of DC cables with Isolator terminal attached



Closer view of Solar DC Cables showing:
A – Gas Pipe
B – Solar DC Cables



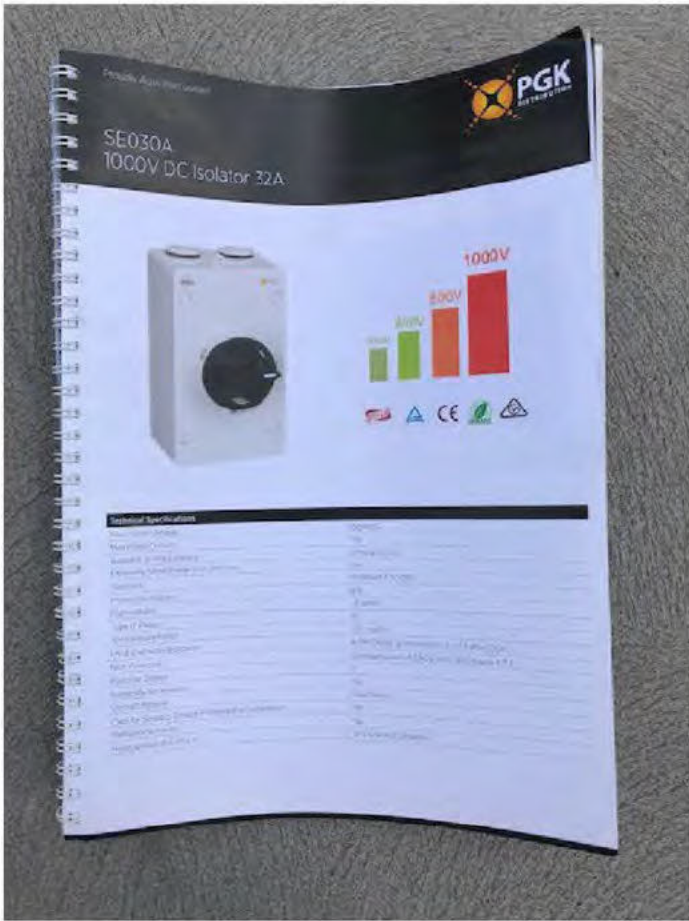
Scene of fire showing location of Solar Panels

Equipment used in your rooftop solar system.

Here is a list and some more information about the equipment that has been installed as part of your rooftop solar system.

Product type	Product	Model	Quantity
Solar panel	Trina Solar Honey 250W PV panels	TSR-P020A	12
Inverter	SMA	X1-3.0-S-N	1
Mounting system	SMA Sunny Boy		-
Mounting system	Joyal Solar Systems		-
Mounting system	Weldments DPA	Rail	24m
Mounting system	Kalium		-
Circuit breaker	Avantis		-
Circuit breaker	Comtek		-
Circuit breaker	Hager		-
Circuit breaker	Huber		-
Circuit breaker	ABB		-
Circuit breaker	Clipsal		-
Circuit breaker	GWR		-
Circuit breaker	NAB	M605-1-20	1
Isolators	IPD		-
Isolators	Bendler & Hager		-
Isolators	GWR		-
Isolators	Tektron		-
Enclosures	IPD		-
Enclosures	GWR		-
Conduit	Australian Plastic Profiles	25mm ²	12m
Conduit	TLE		-
Conduit	HPE Solar Lockset Fibre	25mm ²	4m
Conduit	Rigid Conduit		-
Cable	1/2 Conductor		-
Cable	Two and Earth	6mm ²	6m
Cable	Direct Solar	4mm ²	25m
Grounding kit	Resonix Isolator	Ten deck 43, 44	1
Other equipment			
ISOLATOR	PGK	SE030A	2
ISOLATOR	GEN 3	UXF335	1

PV Array Documentation showing Make and Model of DC Array Isolator



PV Array Documentation showing Manufacturer's Data Sheet for DC Array Isolator

Ray Gorrell | Electrical Inspector

Phone 02 6207 7775 | Mobile [Sch 2.2\(a\)\(ii\)](#)
Construction and Workplace Protection | Access Canberra | ACT Government
Mitchell Customer Service Centre, 8 Darling Street, Mitchell ACT 2911 |
GPO Box 158 Canberra ACT 2601 | <http://www.act.gov.au>

Sch 2.2(a)(ii)





Don 2 2019

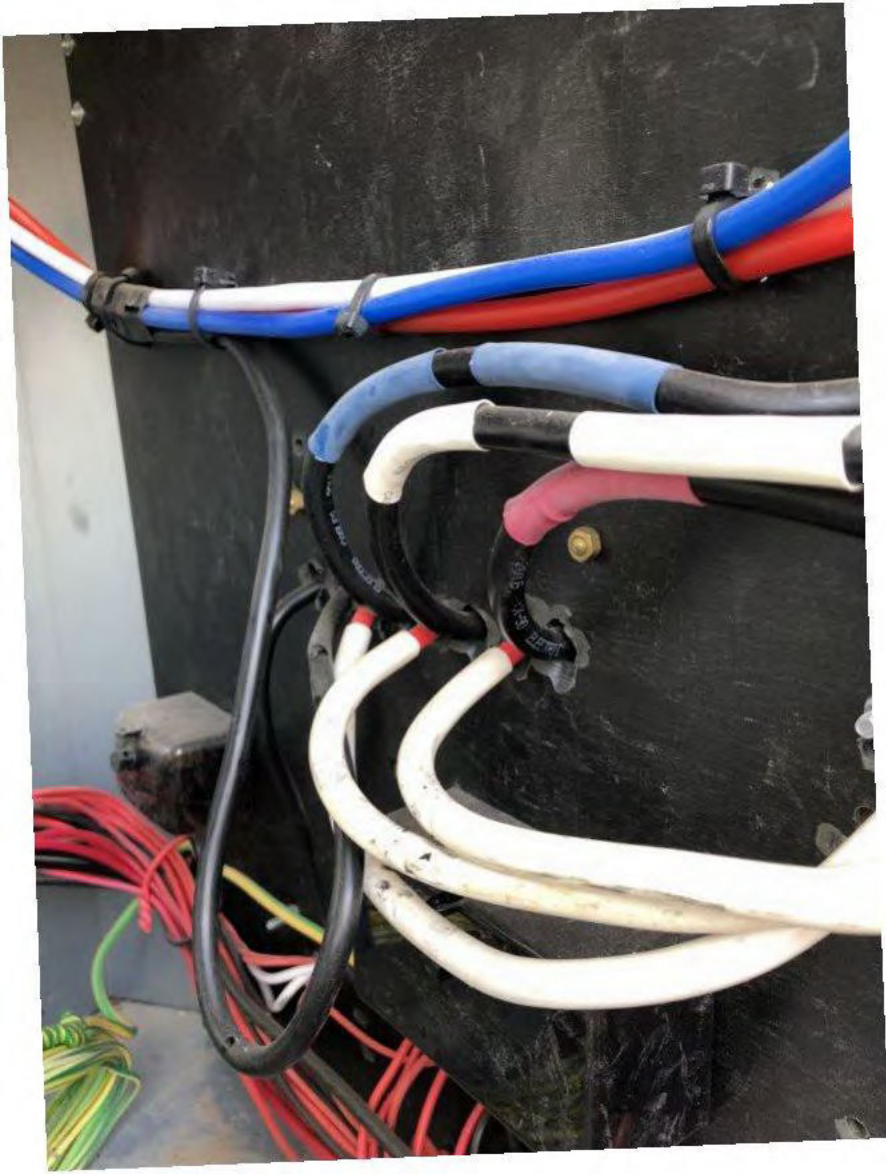


DANGER
LIVE PARTS
INSIDE



Neutral Link
behind









IS

NSF50119-E

IMPORTANT NOTICE PERMANENT INSTALLATION

Authorisation for connection of
permanent electrical installation to
electricity network

Suburb: DEUNMAN

[Redacted] Unit

This permanent electrical installation has been tested by a licensed electrician. A Certificate of Electrical Safety has been issued for compliance with Part 2 Sections 4, 5 & 6 of the Electricity Safety Act 1971 (the Act), certifying this installation complies with the current edition of the standard AS/NZS3000: Electrical Installations, known as the Wiring Rules.

Under section 4 of the Act, an audit has been conducted by an ACT Government electrical inspector. Approval for connection to the electricity network is given.

Approval covers: PV

Signed: [Redacted] son 22/0/17

Date: 24/6/17
Electrical Inspector - 02 6207 7775

12/2014

ActewAGL / Solar

be brighter.

Your system manual.



Here is some important information about how your new rooftop solar system operates.

Please leave your system manual inside the meter box until after the ACTPLA inspection.

© 2015 ActewAGL

IMPORTANT NOTICE
PERMANENT INSTALLATION

Authorisation for connection of
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electricity network

Suburb DEEMAN
[Redacted] Unit

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Under section 4 of the Act, an audit has been conducted by an ACT Government electrical inspector. Approval for connection to the electricity network is given.

Approval covers NEW
DISPLAY INSTALLATION

Signed [Redacted] Electrical No. 2 6202 7775

Date: 9/5/17

WARNING
 PV ARRAY DC ISOLATORS DO NOT OPEN
 THE PV ARRAY AND ARRAY CABLES
 WHILE THE PV ARRAY IS OPERATING

SHUTDOWN PROCEDURE

1. Turn off the AC Solar Supply Main Switch located in the switchboard.
2. Turn off the PV Array DC Isolator for the inverter.

WARNING: Do not open plug and socket connections or PV array DC isolator until the Inverter is in the OFF position.

WARNING: Do not open circuit voltage PV Array Short Circuit Current

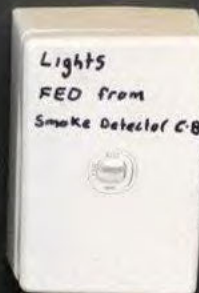
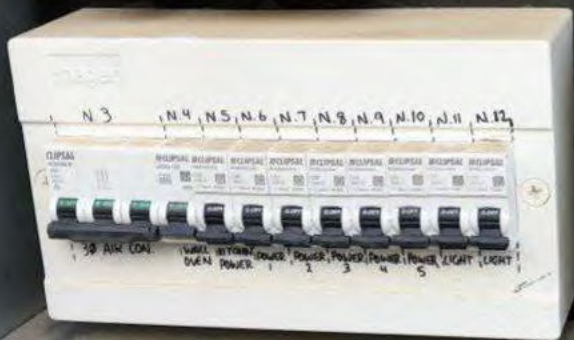
SOLAR ARRAY ON ROOF

Open Circuit Voltage
 Short Circuit Current

General Location
GARAGE



Neutral Link behind



Approved under
DISPLAY EXPLANATION
 SIGN 2017-2018
 Date: 9.5.17

Slab bond
 Main Earth Slab
 M.S.B
 M.E.N Behind Panel
 Neutral Link behind Panel
 Slab earth bond below M.S.B
 Slab earth Reference behind address units
 Pipe bond N/A Fire Appt
 Main earth slab 2m to left of M.S.B



WARNING

PV ARRAY DC ISOLATORS DO NOT OPEN
THE PV ARRAY AND ARRAY CABLES

SHUTDOWN PROCEDURE

1. Turn off the AC "Solar Supply Main Switch" located in the switchboard.

2. Turn off the "PV Array DC Isolator" located to the inverter.

WARNING: Do not open plug and socket connectors or PV array DC Isolator until the Start-Up Procedure is the reverse of the Shutdown Procedure.

Start-Up Procedure is the reverse of the Shutdown Procedure.

PV Array Open Circuit Voltage:
PV Array Short Circuit Current:

**SOLAR ARRAY
ON ROOF**

MPPPT
PV Array Open Circuit Voltage(STC):
PV Array Short Circuit Current(STC):

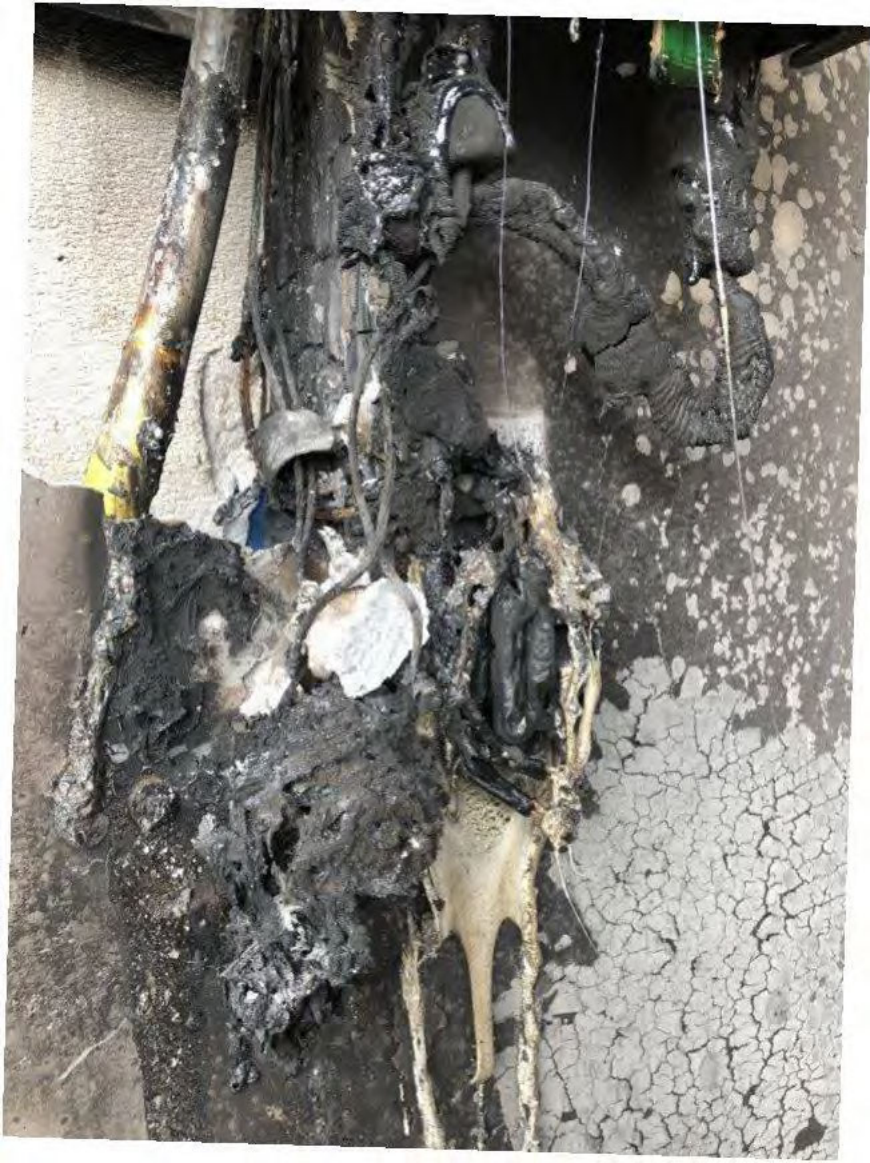
Inverter Location
GARAGE

N-2B



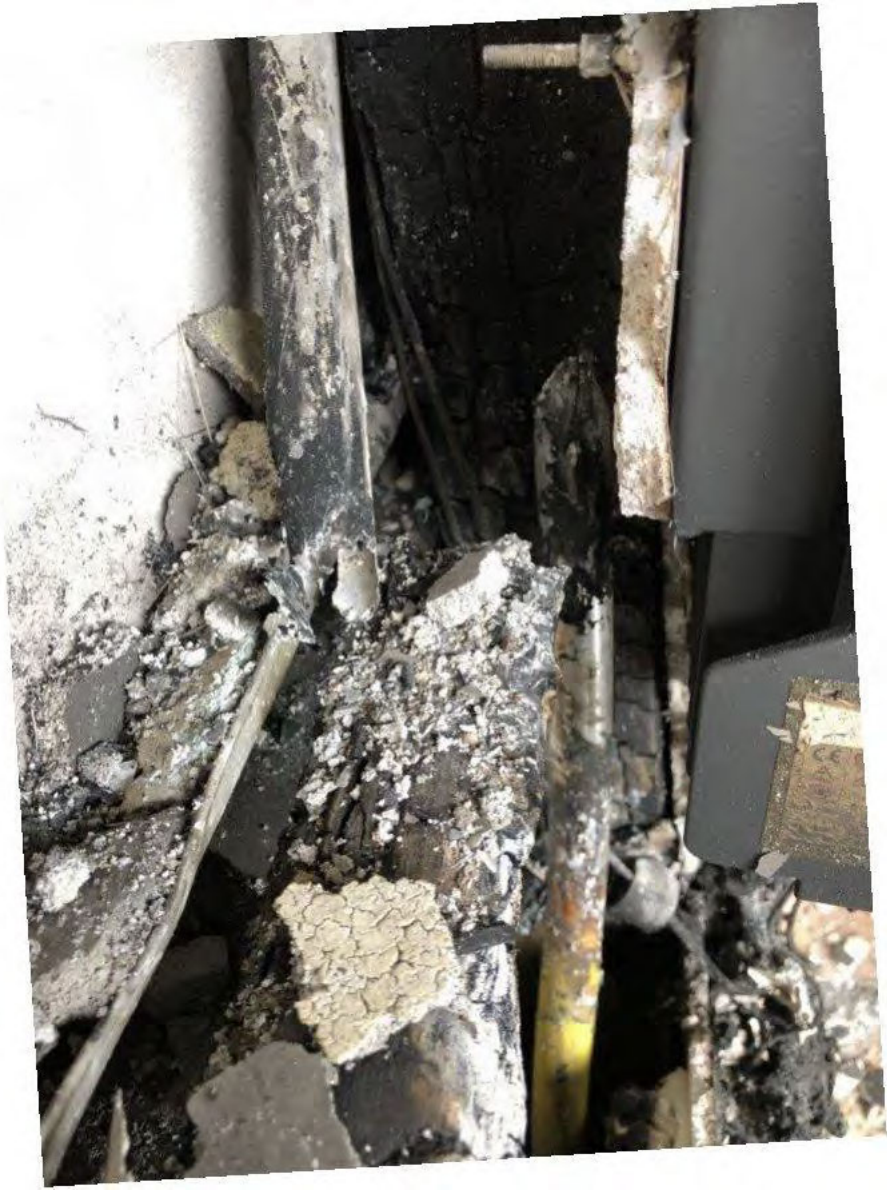
SOLAX
POWER











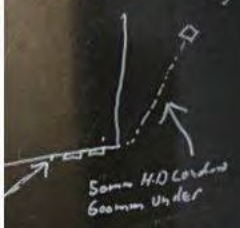






WARNING
EQUIPMENT IS
LIVE

Stake to Left of
-B
4 bond N.A PVC pps
11' behind panel
back below board is cavity



P. 11/11
board

IMPORTANT NOTICE
PERMANENT INSTALLATION
Authorisation for connection of
permanent electrical installation to
electricity network
DELMAU

The permanent electrical installation has been
checked by a competent electrician. A Certificate
of Electrical Safety has been issued for
installation of the equipment. The electrician
has checked the installation and the equipment
has been found to comply with the current
requirements of the Rules. The equipment
has been found to comply with the current
requirements of the Rules. The equipment
has been found to comply with the current
requirements of the Rules.

NEW
DELMAU
Sch 2

IMPORTANT NOTICE TO
CONSUMER
DELMAU
Sch 2

IMPORTANT NOTICE
PERMANENT INSTALLATION
Authorisation for connection of
permanent electrical installation to
electricity network
DELMAU

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PV
Sch 2





ACT
FIRE & RESCUE

ACT
FIRE & RESCUE

ACT
FIRE & RESCUE









ActewAGL / Solar

be brighter.

Your system manual.



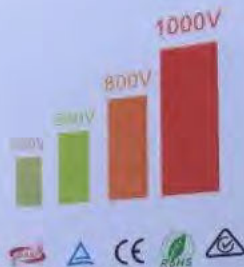
Here is some important information about how your new rooftop solar system operates.

Please leave your system manual inside the meter box until after the ACTPLA inspection.

Proudly Australian owned



SE030A 1000V DC Isolator 32A



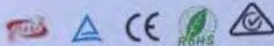
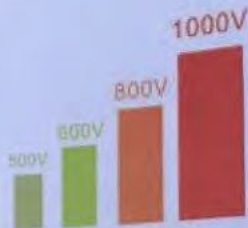
Technical Specifications

Rated Voltage	1000VDC
Max. Rated Current	32A
Available Power Windows	2 Pole & 4 Pole
Extremely Short Blow Shut Off Time	1ms
Standard	EN60439-1-2008
Insulation Degree	4GE
Flammability	UL94V0
Type of Panel	IP00
Temperature Range	0°C - 40°C
UV & Chemical Resistance	3000 hours of chromaticity < 1.7 after 200h
Non-flammable	Complies with AS/NZS 6009: 2002 class 0, 1, 2
Pollution Degree	3
Substrate for Isolator	FR4
Contact Material	Alloy Steel
Tools for screw to ensure IP Rating after installation	Yes
Pre-assembly tool	Yes
Measurement (D x W x H)	305 x 66 x 110 (mm)

Proudly Australian owned



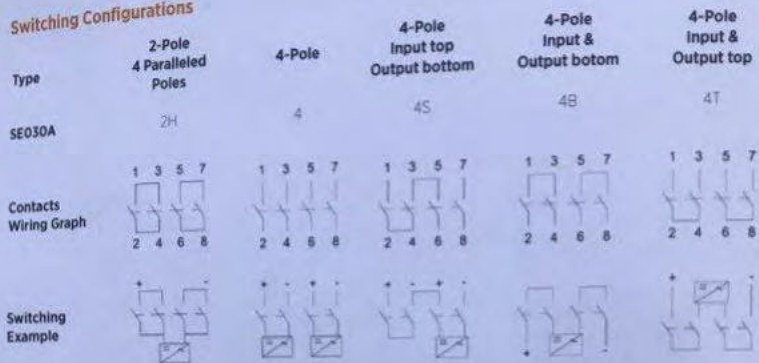
SE030A 1000V DC Isolator 32A



Technical Specifications

Max. Rated Voltage	1000VDC
Max Rated Current	32A
Available in Pole Versions	2 Pole & 4 Pole
Extremely Short Power Shut Off Time	3ms
Standard	IEC60947-3 DC-2B
Protection Degree	IP66
Flammability	UL-94V0
Type of Plastic	PC
Temperature Range	-5°C/+60°C
UV & Chemical Resistance	ASTM D4459 of chromatin(2h) is ≤ 0.7 after 200h
Non-Polarised	Compliance with AS/NZS 5033: 2012 clause 4.3.3
Pollution Degree	3
Suitability for Isolation	Yes
Contact Material	Silver Plating
Cable for Screw to Ensure IP Rating after installation	Yes
Padlockable Handle	Yes
Measurement (L x W x H)	197.6 x 98.6 x 106.6mm

Switching Configurations



Contact Configuration	500V	600V	800V	1000V	Poles in Series	Number of Strings	Type Number	Weight kg/pcs
	29A	29A	16A	9A	2	1	SE030A PE 2H	0.71
	45A	45A	20A	11A	2	1	SE030A PE 2H	0.71
	58A	50A	23A	13A	2	1	SE030A PE 2H	0.71
	16A	16A	16A	9A	2	2	SE030A PE 4	0.68
	25A	25A	20A	11A	2	2	SE030A PE 4	0.68
	32A	32A	23A	13A	2	2	SE030A PE 4	0.68
	16A	16A	16A	9A	4	1	SE030A PE 4S	0.69
	25A	25A	20A	11A	4	1	SE030A PE 4S	0.69
	32A	32A	23A	13A	4	1	SE030A PE 4S	0.69
	16A	16A	16A	9A	4	1	SE030A PE 4B	0.69
	25A	25A	20A	11A	4	1	SE030A PE 4B	0.69
	32A	32A	23A	13A	4	1	SE030A PE 4B	0.69
	16A	16A	16A	9A	4	1	SE030A PE 4T	0.69
	25A	25A	20A	11A	4	1	SE030A PE 4T	0.69
	32A	32A	23A	13A	4	1	SE030A PE 4T	0.69

PGK Distribution

Melbourne - Head office
8 Mohr St Tullamarne, Vic 3043
T: 1300 PGK SOL

Brisbane

2/21 Hugo Place Mansfield, QLD 4122
T: 1300 PGK SOL

Sydney

1/94 Military Rd Guildford, NSW 2161
T: 1300 PGK SOL

Installer/designer's declaration of compliance

Name of installer

Sch 2.2(a)(ii)
Sch 2.2(a)(ii)

Electrical licence number

CEC accreditation (GC/SPS)

GC D&I



CEC accreditation number

AUG06625

Installation address

Derrin

I (the above named installer) have public liability insurance of at least \$5 million and I am bound by the Clean Energy Council's Code of Conduct and have complied with that code of conduct for the installation of the above unit. The Clean Energy Council's Code of Conduct is available at www.cleanenergycouncil.org.au

I (the above named installer) verify that all local, State or Territory government requirements have been met for the siting of the unit, the attachment of the unit to the building or structure (if the unit is attached), and the grid connection of the system (if it is grid connected) for the SGU installation at the above address. I confirm that the above requirements have been met.

I (the above named installer) confirm that the installation complies with the following Australian Standards as in force at the time of installation:

- AS/NZS 3000, Wiring Rules
- AS/NZS 1768, Lightning protection
- AS 4777, Grid connection of energy systems via inverters (only if grid connected).

I (the above named installer) confirm the installation complies with the following Australian Standards as in force at the time of installation*:

- AS/NZS 5033, Installation of photovoltaic (PV) arrays
- AS/NZS 1170.2, Structural design actions, Part 2: Wind actions.

I also confirm that I installed and/or physically supervised the install of a model of a photovoltaic module listed in AS/NZS 5033 Compliant PV Modules as in force from time to time and available at www.cleanenergycouncil.org.au; and (if the system uses an inverter) used a model of grid-connect inverter listed in Tested and Approved Grid Connected Inverters as in force from time to time and available at www.cleanenergycouncil.org.au

Installer's declaration

I declare that the above statements are true and understand that the provision of false or misleading information contravenes Section 24B of the Renewable Energy (Electricity) Act 2000. Failure to comply with the Act can result in penalties and prosecution where warranted.

Signature

Sch 2.2(a)(ii)

Date

Customer's declaration

I confirm that I am satisfied with the solar array and its installation. The system has been installed in the quoted locations and the site has been left neat and tidy. The installer has provided me with a copy of my system manual.

Name

Signature

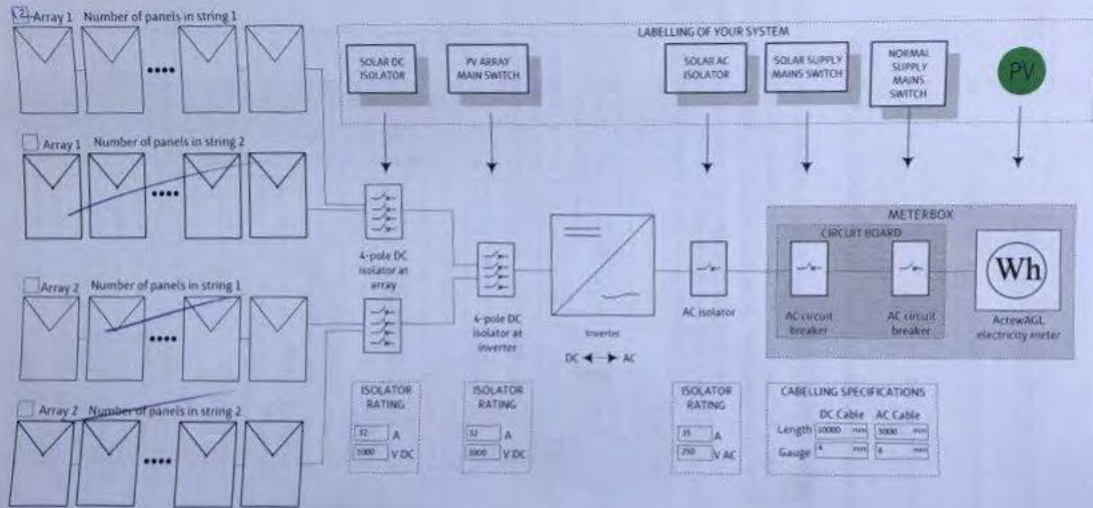
Date

Equipment used in your rooftop solar system.

Here is a list and some more information about the equipment that has been installed as part of your rooftop solar system.

Product type	Product	Model	Quantity
Solar panel	Trina Solar Honey 250W PV panels	TSM-PC05A	12
Inverter	SolaX	X1-3.0-S-N	1
Inverter	SMA Sunny Boy		-
Racking system	Antai Solar System		-
Racking system	LadderTech DPA	Rail	24m
Racking system	Radiant		-
Circuit breaker	Avanco		-
Circuit breaker	Contek		-
Circuit breaker	Hager		-
Circuit breaker	Pulset		-
Circuit breaker	ABB		-
Circuit breaker	Clipsal		-
Circuit breaker	GWR		-
Circuit breaker	NHP	Mod6-1-20	1
Isolators	IPD		-
Isolators	Bendikt & Jager		-
Isolators	GWR		-
Isolators	Telegron		-
Enclosures	IPD		-
Enclosures	GWR		-
Conduit	Australian Plastic Profiles	25mm ²	12m
Conduit	TLE		-
Conduit	HPP Solar Conduit-Flex	25mm ²	8m
Conduit	Rigid Conduit		-
Cable	PV Connections		-
Cable	Twin and Earth	6mm ²	6m
Cable	Olfex Solar	4mm ²	25m
Lead flashing kit	Aquarius Rubber	Tin dock tight	1
Other equipment			
ISOLATOR	PGK	SEO30A	2
ISOLATOR	GEN 3	UKF335	1

Solar system diagram



KEY OF SYSTEM COMPONENTS





Spec Sheet: **IPW35**

- **Description:** IPW weatherproof isolators are ideal for motor safety isolation with 4 threaded gland entries and a degree of protection to IP66. IPW isolators are ideally suited for outdoor applications such as isolation of air conditioning units.
- The 35A 500V AC series are available in 1P **IPW35I**, and 3P **IPW35J**
- **Application:** Motor isolator safety switches, motor disconnectors and air conditioning isolators.
- **Certification:** IEC EN 60947.3, AC22B, AS3133 "M" Rated 160/180A
- **Features:**
 - High visibility ON/OFF indication
 - High strength locking screws
 - Made from UV Resistant Polycarbonate, IP66
 - Phase connections up to 25mm² cable, E and N 16mm² cable
 - Pad-lockable handle with front and rear entries
 - Ample cable space for the large cables



Dimensions & Ratings

Free air thermal current (I _{th})	35A
Enclosed thermal current (I _{thE})	35A
Rated insulation voltage (U _i)	500V
Rated operational voltage (U _o)	415V
Dielectric properties	1kV

IEC947.3

Rated operational current	35A
at 415V AC-21A	35A
at 415V AC-22A	35A

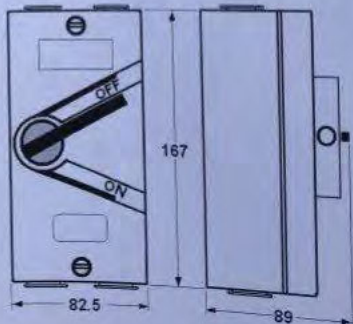
AS3133

Rated operational current	160A
Locked rotor 3 Ø, "M" rating	160A
Locked rotor 1 Ø, "M" rating	180A

Short time withstand current (I _w)	0.796A
Short-circuit making capacity (I _{sc})	1.5kA

Mechanical Endurance with current	1,500
Mechanical Endurance without current	8,500

Degree of Protection	IP66
Conduit Entries	4 x M25
Padlock max diameter	60mm
Max. Cable Size mm ² (Main)	25
Max. Cable Size mm ² (N / E)	16
Weight 1P	0.48kg
Weight 3P	0.98kg





Spec Sheet: TFW5022

- Compact **non polarized** isolator **50A** rated up to **1000V DC**.
- **Fault-make load-break switch operation**, ideal for DC systems.
- Padlockable handle with terminals rated to IP20.
- DIN profile for mounting in any DIN slot.
- Rotary oxidation proof contacts.
- Up to 2 x 6mm² cables or 1 x 10mm² fork lug.
- **Application:** PV array isolators.
- **Certification:** IEC 60947.3, UL 508, File E332938.



Dimensions & Ratings

Free air thermal current (I _B)	50A
Rated insulation voltage (U _i)	1500V
Rated operational voltage (U _e)	1000V
Rated impulse withstand voltage (U _{imp})	9kV
Ambient temperature (I _B)	-30 to +50

Rated Operational Current DC218*

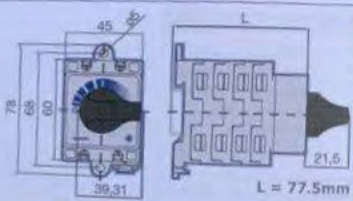
(according to IEC 60947.3 and VDE 0660) **4P** in series **2P** in series

at 400V DC	50A	50A
at 500V DC	50A	40A
at 600V DC	50A	25A
at 800V DC	50A	10A
at 900V DC	50A	8A
at 1000V DC	40A	8A

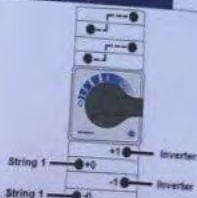
Rated Short-circuit Making Capacity

Short Time Withstand (I _{sc})	1.0kA
Short-time withstand current (I _{sc})	62.5
Mechanical Endurance	30,000
Weight	0.24kg
Operating torque	4Nm
Connection torque	1.5 - 2.0Nm
Cable Size mm²	2x6

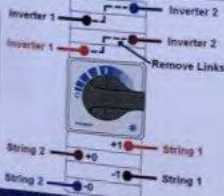
*Data consider 1m² reactive load + maximum overload



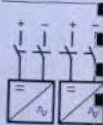
Connections



1 x String (4P in series)



2 x Strings (2 x 2P in series)





SOLAX
POWER



WARNING
HAZARDOUS D.C.
VOLTAGE

WARNING
HAZARDOUS D.C.
VOLTAGE



WARNING

MULTIPLE D.C. SOURCES
TURN OFF ALL D.C.
ISOLATORS TO ISOLATE
EQUIPMENT



...E. SOURCES
...RN OFF ALL D.C.
...LATORS TO ISOLATE
...EQUIPMENT



W
B
I
A
C

VG
SOURCES
CALL D.C.
TO ISOLATE
RIMENT





WARNING

PV ARRAY DC ISOLATORS DO NOT DE-ENERGIZE
THE PV ARRAY AND ARRAY CABLINGS

Inverter Location

GARAGE

SOLAR ARRAY ON ROOF

	MPPT1	MPPT2
PV Array Open Circuit Voltage(STC):	<u>415.8</u>	<u>340.2</u>
PV Array Short Circuit Current(STC):	<u>9.16</u>	<u>9.16</u>

SHUTDOWN PROCEDURE

1. Turn off the AC "Main Switch Inverter Supply" located in the switchboard.
2. Turn off the "PV Array DC Isolator" located next to the inverter.

WARNING: Do not open plug and socket connectors or PV array DC Isolator under load

Start-Up Procedure is the reverse of the Shutdown Procedure

PV Array Open Circuit Voltage:	V
PV Array Short Circuit Current:	A

**IMPORTANT NOTICE
PERMANENT INSTALLATION**

Authorisation for connection of
permanent electrical installation to
electricity network

Suburb

DonMarr

[Redacted]	[Redacted]
------------	------------

Unit

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Under section 4 of the Act, an audit has been conducted by an ACT Government electrical inspector. Approval for connection to the electricity network is given.

Approval covers

HOUSE
Signed: *[Signature]*

Signed:

Sch 2.2(a)(ii) *[Signature]*

Date:

25/8/17

01 6287 7725

02/2014

TERMITE MANAGEMENT NOTICE

In accordance with Australian Standards AS3666.1 or AS3666.2

Certificate of Installation (AS3666.1) No. *2017-02-00020125 SMP*

Method (a) of Termite Management used were Chemical Treated Zone 1, 3, and/or Zone Chemical Treated Zone 1, Physical Barrier System, 1 Baiting System (AS3666.2) only. A other

The concrete Slab does (/) does not (/) form part of the Termite Management System. (Note: Where the slab is used then it is the responsibility of the builder. It should have been poured in accordance with AS3670 as cracks may allow termite entry)

Comments: *27 PMS, 01505 & 01610168*

Address to which Notice Applies: *Block 3 Section 15, CHIMMAN PROSPECT ACT 2611*

Date of Installation is: *26/08/2017*

Rentokil
The Experts in Term Control

24 HRS

**IMPORTANT NOTICE
PERMANENT INSTALLATION**

**Authorisation for connection of
permanent electrical installation to
electricity network**

Suburb

DELRIN AU

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Under section 4 of the Act, an audit has been conducted by an ACT Government electrical inspector. Approval for connection to the electricity network is given.

Approval covers.....

AV

Sec 22(a)(i)

Signed.....

Elect.....

02 6207 7775

Date: 10 / 8 / 17

12/986