Welcome pack

Version 1.0 | 2019

Dear Alastair Dowler,

This booklet contains important information for you to read. Please take the time and care to go over this booklet.

If you have any further questions, please feel free to contact Powow on 1800 864 026.

Thank you for choosing Powow Energy and welcome aboard.

How does a solar system work?

1. As sunlight hits the solar panels, electricity is produced via the photovoltaic effect.

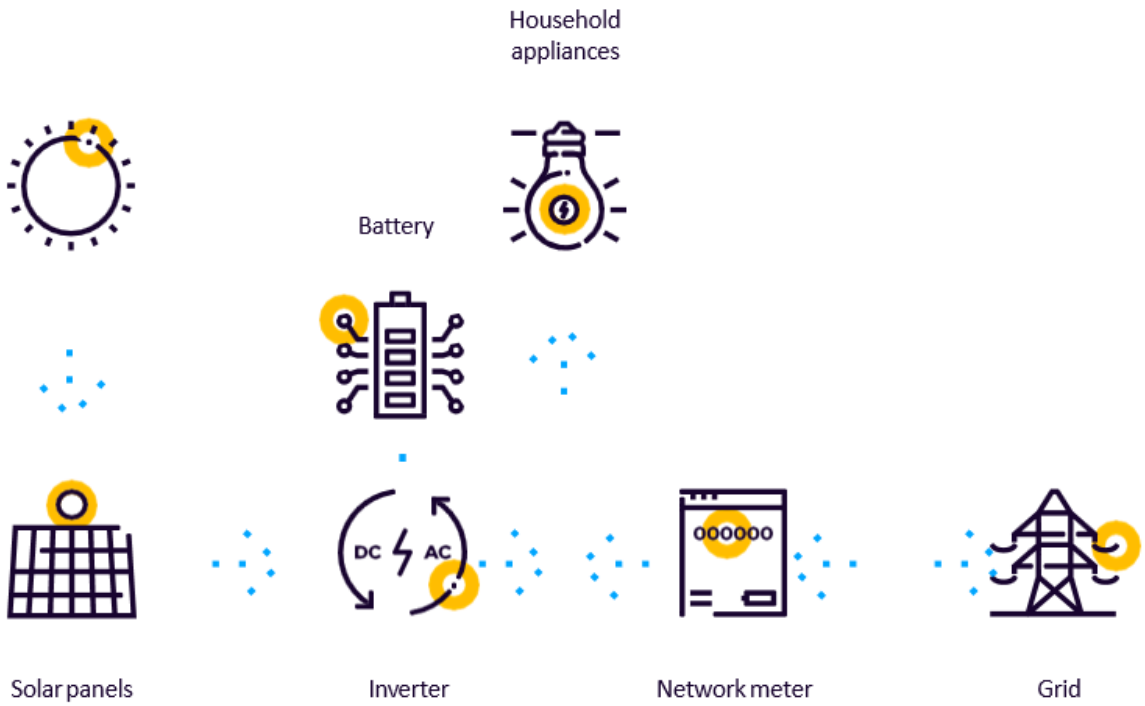
2. The racking/mounting frames hold the panels securely on your roof.

3. The enclosures/isolators (AC/DC) on the side of the inverter are isolation devices in the case of emergencies. The DC isolator turns off the panels whereas the AC isolator turns off the inverter.

4. The Inverter converts the panel produced electricity into usable AC electricity.

5. This is then connected into the switchbox to supply your house with solar power.

6. For system with batteries, excess solar energy can be stored for use at night when the solar panels are not producing.



Your Powow installer

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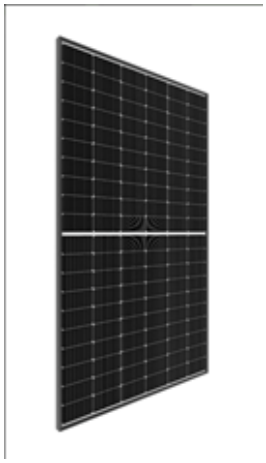
Your Powow install



Shut down procedure

1. Go to your switchboard and open it. Locate the ‘Main Switch (Inverter Supply)’ and flick it to the off position.

2. If the inverter is more than 3 meters away from the switchboard, there will be one or more solar AC isolator(s). Switch all AC isolators to the off position.

3. Go to the inverter and find the isolator(s) labelled as DC isolator. Switch all DC isolators to the off position.

4. The inverter may also have a switch marked Inverter Isolator. Switch it to the off position if there is any.

5. Keep the system off for minimum 5 minutes before carrying out any work.

* To restart the system please follow the guide in reverse order - if you are stuck or experiencing issues please contact Powow on 1800 864 026.

Maintenance instructions

The system

A PV power system is characterized as a “low maintenance” due to the absence of moving parts.

The panels

Inspect regularly for broken modules, shading and/or excessive soiling. If you cannot check please DO NOT climb the roof to check. Check if the system output has dropped drastically via the in-built monitor.

The inverter

The Inverter has a LCD display/lights/ monitoring that will effectively let you know the operation status of the system. If an error or fault occurs, please consult the inverter manual or call Powow.

The circuit breakers

Ensure all breakers and enclosures are closed. If not, please close them according to the instructions on the breakers themselves.

General and ongoing

If you find that the system after many years of operation seems to have dropped in performance you may opt for a cleaning service. However, this is NOT required.

WARNING: Powow expressly recommends that homeowners to NOT explore the wiring systems or components (panels) beyond the level they may be accustomed to within a normal residential household.

Safety precautions 1.0

Getting the system serviced

- Use only an approved CEC accredited electrician to undertake servicing or modifications
- You should never attempt to service or open any part of the solar system unless you are a fully qualified licensed electrician
- If you need to access your roof, remember you are working at heights so take appropriate precautions, adhere to all safety regulations, wear appropriate safety equipment like harnesses.

The system may still be live even if there has been a power outage

- As solar systems are powered by the sun, or any other source of light they can continue to generate power from the panels to the inverter
- Even after following the shutdown procedure for your system, if anyone is working on your roof you must notify them that there may be the possibility of a small electrical charge present in the mounting/ frame and panel frames
- If the solar system does not have any storage/ batteries and a EPS feature set up, when there is an interruption to the electricity supply from the grid solar system will not continue to supply power to the home
- If the system has a battery and EPS system taking care of all wiring and outlet, you will still have a live current in your house
- If you ever feel that the PV system and or battery storage is not operating – too much heat, excessive noise, smoke please follow the shutdown procedure immediately and then call Powow.

During wet weather, storms or flooding

- Do not work in the vicinity of solar panels when raining or wet
- Do not attempt to turn off the solar system if any of the components are wet as this may result in a fatal shock
- During floods, do not approach system if any or all of the parts are submerged and if you are forced onto your rooftop due to rising flood water levels keep away from the panels
- In the rare event of severe weather outlooks please follow the shutdown procedure in preparation for the event
- If any debris have fallen onto the system after a storm, please follow the shutdown procedure if you are concerned about the safety
- Do not re-connect the system unless a licensed electrician has certified the system is safe and operational
- All tests and re-commissioning of a system after a natural weather event must be carried out by a licensed CEC accredited installer.

Other safety considerations

- Treat the solar system as if it was live at all times
- You should never substitute any material supplied in the solar system
- You should never pour cold water on the solar panels when the sun is shining as they are hot and this could cause the glass panels to shatter
- Never attempt to walk on the panels
- Do not touch any damaged cables on the solar system
- Do not cover the inverter cooling fans
- In case of fire, where possible try to follow the shut down procedure.

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Contacts + Additional information

Company website
www.powow.com.au

Contact number
1800 864 026

General enquiries
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Customer support
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Other enquiries
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Other contact information

Grid Provider Electricity
Retailer Panel
Manufacturer Inverter
Manufacturer Clean
EnergyCouncil

Please refer to the respective manuals or call Powow and we can refer you