

# Choosing your battery location

## Key information

- An external or garage wall with a non-habitable room behind it is an ideal location for a battery.
- Batteries cannot be installed in habitable rooms or rooms without adequate ventilation.
- Batteries must be out of direct sunlight.
- Bollards must be installed where vehicle strike is possible.
- Ground-mounted batteries must be on a hardstand surface (concrete, paving) not prone to waterlogging and away from open drains and down pipes.

## Safe distances

Within 900mm above the battery:

- No plasterboard (combustible) ceiling.
- No windows to habitable rooms.
- No vents or appliances.

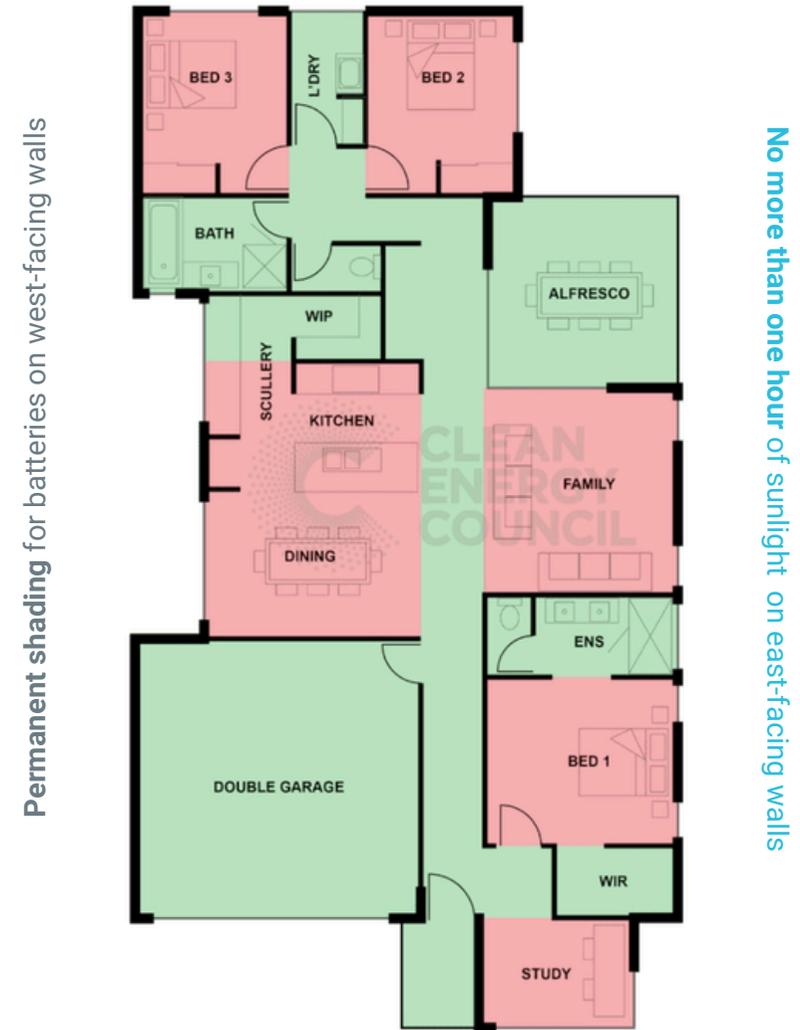
Within 600mm either side of battery:

- No windows, doors, exits, A/Cs or GPOs/power points.
- No walls or other fixed items.
- No gas pipes or fixtures, or hot water systems (non-gas).

Within 1500mm either side of battery:

- No gas bottles or gas hot water systems.

Permanent shading for batteries on north-facing walls



No more than one hour of sunlight on south-facing walls

Habitable room



Non-habitable room



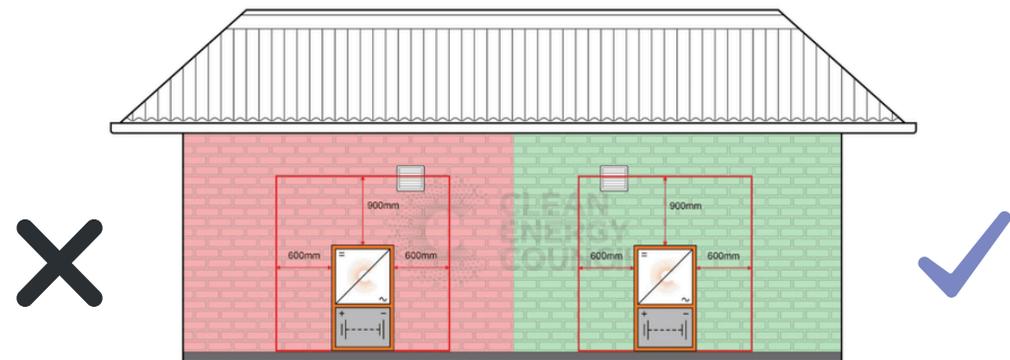
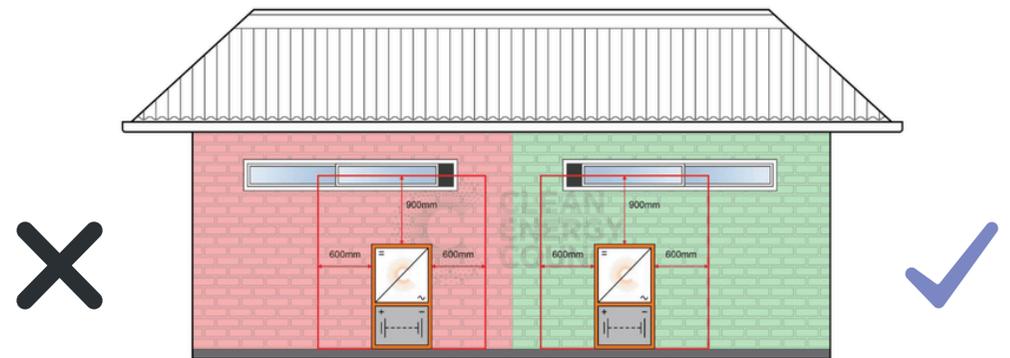
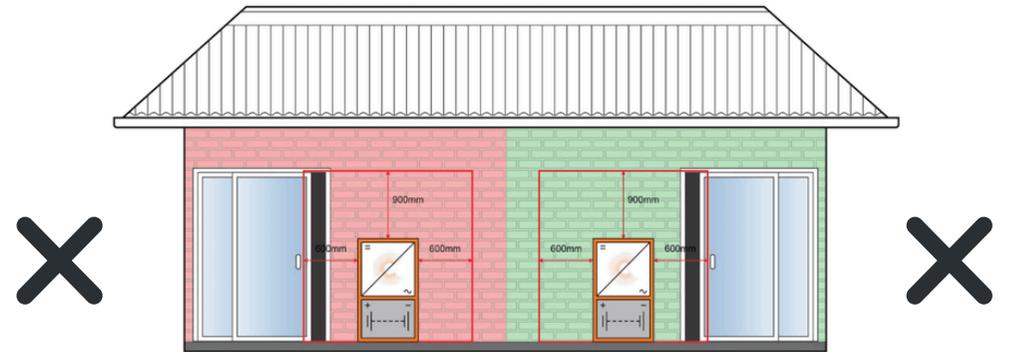
# Battery location: External wall

All doors/exits must be >600mm either side of battery.

Only windows to non-habitable rooms can be within 900mm above battery.

Only vents to non-habitable rooms can be within 900mm above battery.

*Note: Batteries installed outdoors must be **out of direct sunlight** and protected from weather.*



Habitable room   
 Non-habitable room

# Battery placement: Multiple units

Within 900mm above the battery:

- No other battery unit.
- No other inverter unit.

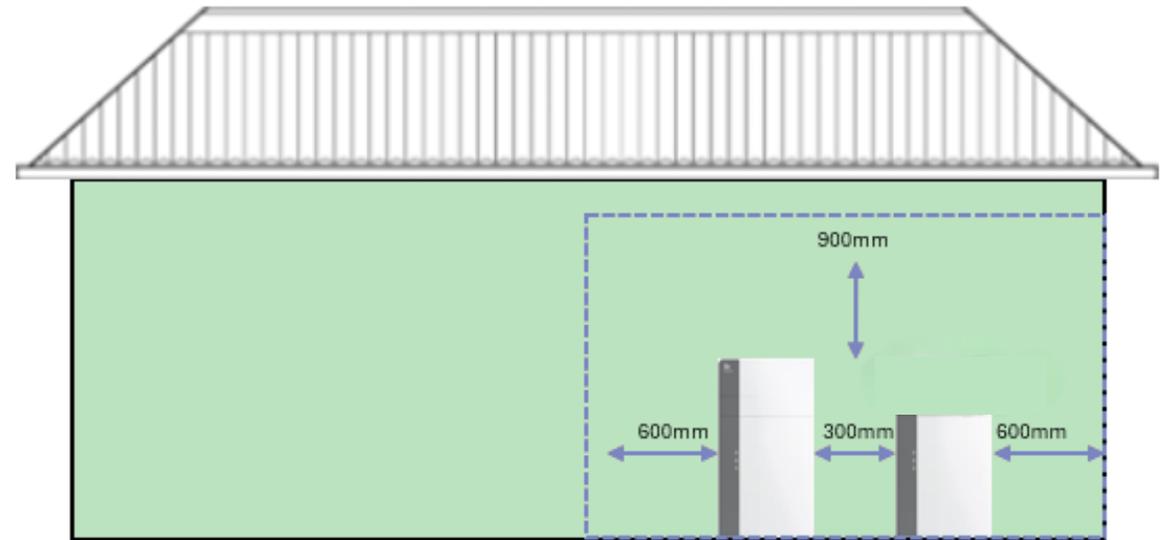
Within 300mm either side of battery:

- No other battery unit.
- No other inverter unit.

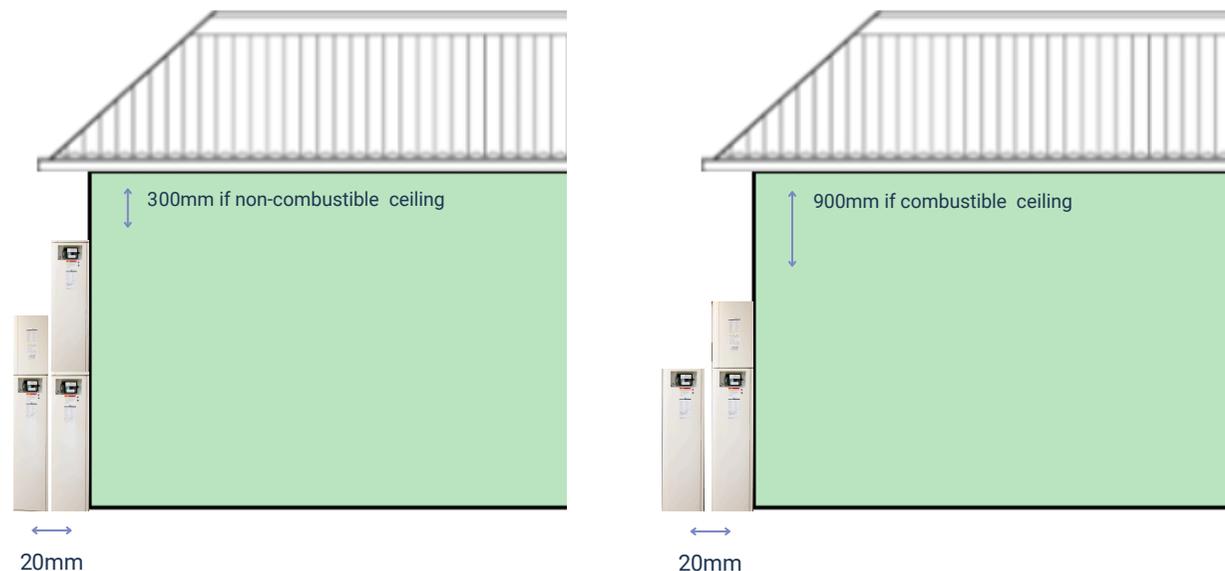
Battery units can be stacked in **front of each other**. A 20mm clearance is approved for some battery models.

All other relevant clearances apply.

Side-by-side battery installation



Front-to-back battery installation



# Example: 30 kWh Alpha battery Garage location

**Purple Zone** must be clear of:

- Windows to habitable rooms
- Doors and exits (excluding garage door)
- Ignition points such as
  - A/C units
  - Power points/GPOs
- Large objects that can obstruct air flow
- Gas fixtures other than bottles

Gas bottles and gas hot water systems must have 1500mm clearance

Non-combustible roof material:

- Brick or masonry block
- Concrete
- Compressed cement sheeting
- Ceramic or terracotta tiles



# Example: 20 kWh Alpha battery External wall

Batteries installed on an external wall must:

- Comply with all relevant clearances
- Be out of direct sunlight
- Be protected from weather
- Have permanent shading on west and north-facing walls
- Be out of direct sunlight on east and south-facing walls (max 1 hour of sunlight per day)
- Be on a level, hardstand surface that is not prone to waterlogging
- Have adequate space (300mm) for ventilation and access.



## Example: 30 kWh Alpha battery Front-to-back stacking

Batteries installed with front-to-back stacking must:

- Comply with all relevant clearances.
- Ensure clearance/spacing between batteries is according to manufacturer's specifications.
- Ensure that access to an exit is not impacted (works for wide areas only).
- Include bollards for garages and driveways where vehicle strike is possible.
- Consider where the inverter is best located (front or back of stack).



# Your battery location options

The clearances provided in this guide along with the **dimensions of your battery**, will help you determine the most suitable location(s) for your battery system. These requirements are mandated to ensure the **safety and performance** of your new battery system.

Your **installer will have the final sign off** on your battery location. If they have concerns, your installation may be postponed. That's why we work with you early in the process to find the best solution.

You may have **different battery configurations** available to you. For example, a 30 kWh battery can be 3 x 10 kWh units side by side, a 20 kWh and 10 kWh unit side by side, or a single 30 kWh unit. You could also choose to install 3 units stacked front to back. We'll work with you to explore these options.

If you cannot find a location that meets all the requirements, there may be a solution available. For example, if you cannot keep a battery out of direct sunlight, a battery enclosure or shading can be added. If you have a GPO/power point in the clearance area, this can be removed or relocated. If you're installing on soft ground, additional structures can be added to support the battery system.

When submitting your **proposed battery location photo**, please ensure the area is clean and free from clutter, and include relevant dimensions above and either side of the proposed battery location. This will help our team determine if the area is suitable for your battery and set you up for a seamless and successful installation day!

# Why is location important?

Finding the right location for your solar battery is a critical first step in your clean energy journey. **Above all else, it's about safety.** At Plico, protecting your home, your family and your system is our highest priority.

Battery installations must meet strict safety and compliance standards. This guide includes information from AS/NZS 5139 ([Electrical installations – Safety of battery systems for use with power conversion equipment](#)), [Clean Energy Council](#), manufacturer user manuals and data sheets, and state network providers. Battery installations can be audited by network providers and Plico's quality control team.

At Plico, we assess battery location **early in the process** to ensure you have a smooth and seamless installation. Confirming a compliant and safe location also ensures your system performs safely and optimally over the long term.

Some sites and systems are straightforward; others need a little more work to find the best solution. Your **Project Manager is here to support you** every step of the way. They will work with you to find the best possible location that balances your preferences, compliance requirements and safety considerations. If you have any questions or concerns, please reach out to them.

We look forward to getting you up and running with clean energy!