

ASNZS5139:2019 Installation

TN00001

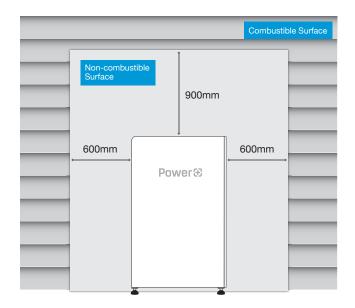


FIGURE ONE: Installation Section 5 and 6

- The wall needs to be fire rated to AS1530.1 behind the PPE battery cabinet, or to be of brick or masonry block, concrete, cement sheet, ceramic or terracotta tile.
- 2. Non-combustible material must protrude 600mm past each side and 900mm above the PPE battery cabinet.
- 3. If PPE battery cabinet is within 900mm of ceiling or structure, then fire rated material 600mm past extremities of PPE battery cabinet must also be fitted above.
- 4. There must be 600mm unobstructed access each side of PPE battery cabinet and 900mm above.
- 5. There must be 600mm clearance unobstructed access on the working Side of the PPE battery cabinet when voltage is DVC-A + >4Cal/cm3.
- There must be 900mm clearance unobstructed access on the working Side of the PPE battery cabinet when voltage is greater than DVC-A +>4Cal/cm3.
- 7. There must be 1metre clearance in front of the PPE battery cabinet in a walkway, corridor or hallway.
- Restricted areas: ceiling space, wall cavities, under stairs, under walkways, in evacuation escape routes, in habitable rooms.
- Extra restrictions Section 6 only: not to be installed under floors of habitable rooms, Fire Hazard Level 1 – not to be installed inside or under building with habitable rooms.

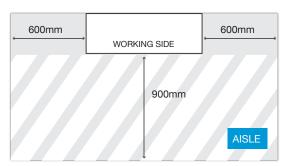


Figure two: Aerial View of Battery Room

FIGURE TWO: Installation Battery Rooms

- The room must be a clean, dry, ventilated room that minimises the likelihood of build up of other materials around the battery system.
- 2. The room must minimise or prevent the infestation of insects or vermin.
- 3. There must be 600mm unobstructed access each side of PPE battery cabinet.
- There must be 600mm clearance unobstructed access on working side of the PPE battery cabinet when voltage is DVC-A +>4Cal/cm3.
- There must be 900mm clearance unobstructed access in front (working Side) of the PPE battery cabinet when voltage is greater than DVC-A +>4Cal/cm3.
- 6. There must be minimum 900mm aisle clearance.

Other Notes:

- Associated battery storage equipment (PCE's, wiring etc) can be installed in clearance zone.
- DC isolator is required for each parallel PPE battery cabinet.
- DC isolator must be within 2m of battery terminals and PCE.
- DC isolator at PCE if battery terminals and PCE >3m apart.
- Switch disconnector (DC isolator / HRC with DC switch) compliant to AS60947.3.
- Batteries > VDC-A to be earthed or have earth fault alarm.

Always read AS5139:2019, manufacturer's installation guides/manuals and other applicable standards before designing or installing any equipment.

This technical note is a guide only.