

INSTALLER RESOURCE · JOB-SITE CHECKLIST

Solar PV & Battery — Testing & Commissioning Sheet

A full grid-connected PV (and battery) commissioning run-through, built around the current NZ standards and the 2025-26 rule changes. Work top to bottom; initial each section.

Client _____	Job / ref no. _____	Date _____
Site address _____		Network / distributor _____
Installer _____	Registration no. _____	MPG endorsement no. _____
Inspector _____	Inspector no. _____	Approved export limit _____ kW
PV size _____ kW / _____ panels	Inverter make / model _____	
Battery make / model / kWh _____		

A — Documentation & compliance **before you leave site**

- ☐ Certificate of Compliance (CoC) issued — standard version used recorded on the certificate
- ☐ Independent Record of Inspection (RoI) by an authorised high-risk inspector
- ☐ Electrical Safety Certificate (ESC) issued — the final certificate, after the RoI
- ☐ Distributed generation (DG) connection approved by the network; approved export limit confirmed
- ☐ Inverter Declaration of Conformity to AS/NZS 4777.2:2020 (incl. Amd 1 & 2) on file
- ☐ Installing electrician holds the Mains Parallel Generation endorsement (or off-grid — not required)
- ☐ As-built single-line diagram completed
- ☐ Manufacturer datasheets, warranties and manuals collated for handover

B — Array & mechanical **AS/NZS 5033:2021**

- ☐ Mounting / rail / clamps installed and torqued to manufacturer specification
- ☐ Roof penetrations flashed and weathertight
- ☐ Panels undamaged; module serial numbers recorded
- ☐ DC cabling secured, UV-rated, no strain or contact with sharp edges
- ☐ Fire and edge setbacks met; array signage and labelling in place

C — DC side **AS/NZS 5033:2021**

- ☐ String open-circuit voltage (Voc) measured vs expected: _____ V (expected _____ V)
- ☐ String polarity confirmed correct before connection
- ☐ Array insulation resistance (Riso) tested: _____ MΩ
- ☐ Isolation/disconnection correct for string count: ≤2 strings → disconnection point at array; >2 strings → DC isolator at the paralleling point
- ☐ Isolator adjacent to / integrated with inverter present and correctly sized
- ☐ Outdoor enclosures IP56; pressure-equalisation valve fitted (or within 300 mm)
- ☐ IP56 drain device fitted at the lowest point of any outdoor conduit run into a disconnection device
- ☐ DC isolators and disconnection points labelled

D — AC side & protection AS/NZS 3000:2018 · 4777.1:2024

- ☐ No more than two inverter main switches on any switchboard with loads (else marshalling / aggregation board)
- ☐ RCD type selected for the actual loads — Type A as a floor; Type B where the inverter/EVSE specifies (Type AC not acceptable)
- ☐ AC isolator adjacent to inverter, accessible and labelled
- ☐ Switchboard labelling and circuit schedule updated
- ☐ Interface protection provided where the network requires it (systems <200 kVA may be exempt — confirm with network)

E — Inverter commissioning AS/NZS 4777.2:2020

- ☐ Correct grid code selected and set on the inverter (AS/NZS 4777.2:2020)
- ☐ Export limit set to the network-approved value: _____ kW (or dynamic export configured)
- ☐ Grid-protection settings verified against the profile
- ☐ Anti-islanding / disconnection-on-loss-of-supply test passed
- ☐ Inverter firmware up to date; date/time set
- ☐ Monitoring commissioned and online

F — Functional & RCD testing AS/NZS 3000:2018 cl 8.3.10

- ☐ RCD trip time measured (not just the test button): _____ ms
- ☐ DC leakage / residual pulsating DC measured where applicable
- ☐ Confirmed the RCD provides protection against electric shock
- ☐ Earth continuity and equipotential bonding verified
- ☐ Polarity of final circuits confirmed

G — System function & handover before sign-off

- ☐ System started; generating and exporting as expected
- ☐ Monitoring online and customer login provided
- ☐ Customer walkthrough: isolation points, shutdown procedure, monitoring, what to do in a fault
- ☐ Emergency shutdown / “solar installed” labelling at the main switchboard for first responders
- ☐ Handover pack given: CoC, RoI, ESC, DG approval, warranties, single-line diagram and manuals

Sign-off

Installer name

Signature

Registration no.

Date

Inspector name

Signature

Inspector no.

Date

Notes / defects / follow-ups

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