

QUICK REFERENCE GUIDE

HOW TO PERFORM CAPABILITY TESTING

Overview:

This guide covers how to run a Capability Test in the NSW CER Installer Portal, and provides a quick reference for test types, pass/fail/timeout scenarios, and common error messages.

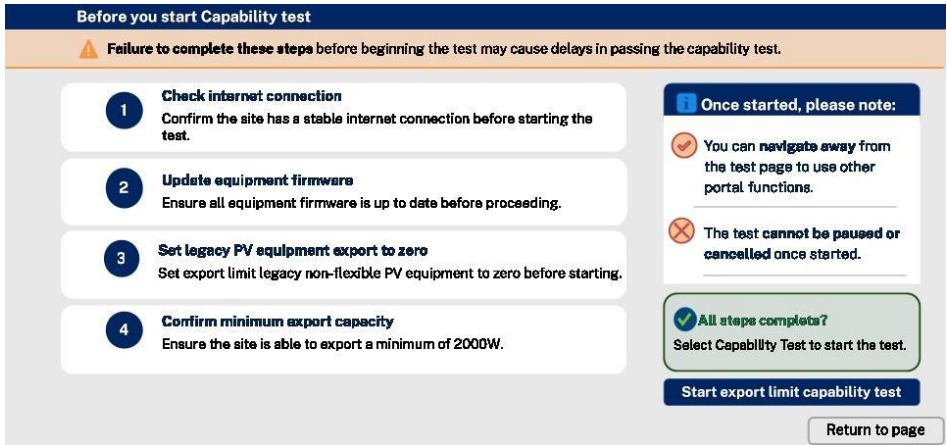
Note: Only one capability test applies per installation. The test cannot be paused or cancelled once started and cannot be run alongside another test on the same application.

Before You Start — Prerequisites:

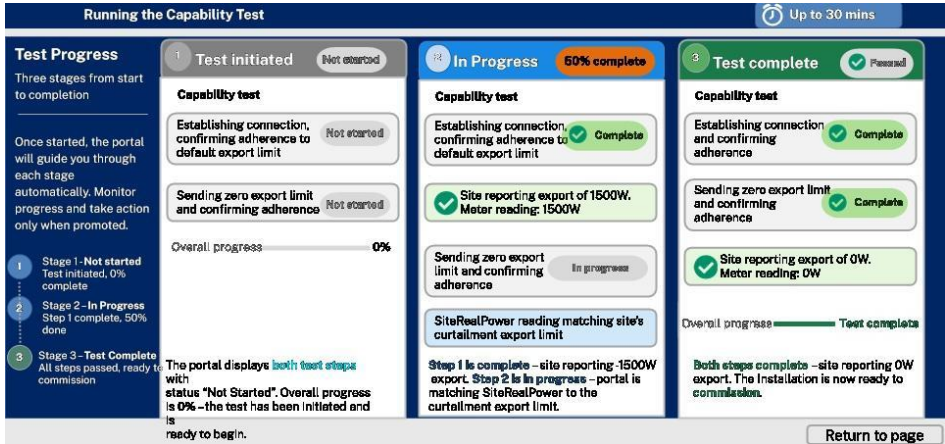
- Check the site has a stable internet connection.
- Ensure all equipment firmware is up to date.
- Set legacy non-flexible PV equipment export limit to zero.
- Confirm the site can export a minimum of 2000 W.

Failure to complete these steps before beginning the test may cause delays in passing the Capability Test.

Part A — How to Run the Capability Test

Action	Screenshot
Step 1 a) Complete the prerequisite checks (internet connection, firmware, legacy export limit, minimum export capacity). b) Once all steps are complete, select Start export limit Capability Test to start the test.	

Action	Screenshot
Step 2 a) Perform the Device Registration Verification Test first – this confirms the device's registration before capability testing can begin. b) Once you see a success message, click Save & continue.	Export limit: Before you start Please ensure the following has been completed before moving to the next step: 1. Install an approved CSIP-AUS compliant solar inverter and export limiting meter as per the manufacturer's installation guide. 2. Ensure the device has the latest firmware and inverter is set to Region A settings AS4777.2.2020. 3. Configure the inverter and associated equipment to the customer's internet. 4. Register the applicant solar inverter via the manufacturer's application to generate a Long Form Device Identifier (LFDI) and ensure it is linked to the correct NMI. Failure to adhere to the above, will result in delays passing the capability test. 
Step 3 a) On the Capability test screen, read the instructions before continuing. b) Click Start export limit test (or Start generation limit test, depending on system capacity). <i>Once started, you can navigate away to use other NSW CER portal functions, but the test cannot be paused, cancelled, or re-initiated on the same application.</i>	Home > Installation > IA-0000000901 Capability test Capability test A capability test must be conducted to ensure we can successfully communicate with the installed device. The test will perform a series of steps that may take up to 30 minutes to complete. Once these steps are completed the device will revert to zero export until this alteration request has been submitted and checked. Instructions 1. Check the site has a stable internet connection before starting the test. 2. Ensure your equipment firmware is up-to-date. 3. Export limit legacy non-flexible PV equipment to zero. 4. Ensure site is able to export at least 2000W. Once started you: • will be able to navigate away from the test page to use other functionalities on the portal • the user cannot pause or cancel the test. • the user cannot initiate another test on the same application. Read the instructions before proceeding with the capability test Start export limit test 

Action	Screenshot
Step 4 a) Monitor test progress on the Capability test screen. The test has 3 stages: Test initiated, In Progress and Test complete. b) The test may take up to 30 minutes to complete.	 The screenshot shows the 'Running the Capability Test' interface. It has a title bar 'Running the Capability Test' and a timer 'Up to 30 mins'. Below the title bar, there are three main sections: 'Test Progress', 'Test initiated', 'In Progress', and 'Test complete'. The 'Test Progress' section on the left lists three stages: 'Stage 1 - Not started', 'Stage 2 - In Progress', and 'Stage 3 - Test Complete'. The 'Test initiated' section shows 'Establishing connection, confirming adherence to default export limit' as 'Not started' and 'Sending zero export limit and confirming adherence' as 'Not started'. The 'In Progress' section shows 'Establishing connection, confirming adherence to default export limit' as 'Complete', 'Site reporting export of 1500W. Meter reading: 1500W' as 'Complete', and 'Sending zero export limit and confirming adherence' as 'In progress'. The 'Test complete' section shows 'Establishing connection and confirming adherence' as 'Complete', 'Sending zero export limit and confirming adherence' as 'Complete', and 'Site reporting export of 0W. Meter reading: 0W' as 'Complete'. An overall progress bar at the bottom shows '0%' for the 'Test initiated' stage and 'Test complete' for the 'Test complete' stage. A 'Return to page' button is at the bottom right.
Step 5 a) Once all steps show Complete and the overall result is Pass, confirm the Capability test completed message. b) Click Save & continue to commission the installation.	 The screenshot shows the 'Capability test completed' message. It has a title bar 'Running the Capability Test' and a timer 'Up to 30 mins'. Below the title bar, there are three main sections: 'Test Progress', 'Test initiated', 'In Progress', and 'Test complete'. The 'Test Progress' section on the left lists three stages: 'Stage 1 - Not started', 'Stage 2 - In Progress', and 'Stage 3 - Test Complete'. The 'Test initiated' section shows 'Establishing connection, confirming adherence to default export limit' as 'Not started' and 'Sending zero export limit and confirming adherence' as 'Not started'. The 'In Progress' section shows 'Establishing connection, confirming adherence to default export limit' as 'Complete', 'Site reporting export of 1500W. Meter reading: 1500W' as 'Complete', and 'Sending zero export limit and confirming adherence' as 'In progress'. The 'Test complete' section shows 'Establishing connection and confirming adherence' as 'Complete', 'Sending zero export limit and confirming adherence' as 'Complete', and 'Site reporting export of 0W. Meter reading: 0W' as 'Complete'. An overall progress bar at the bottom shows '0%' for the 'Test initiated' stage and 'Test complete' for the 'Test complete' stage. A 'Return to page' button is at the bottom right.

Part B — Quick Reference

Which Test Applies

	Export Limit Test ($\leq 30\text{kW}$)	Generation Limit Test ($> 30\text{kW}$)
Applies when	Proposed export capacity is 30kW or less. This is the default test.	Capacity is greater than 30kW, or the Export Limit Test has failed (backstop test).
Sequential steps	1. Establish connection with site 2. Confirm adherence to default export limit 3. Send test export limit to device 4. Confirm adherence to export limit	1. Establish connection and confirm site is not exporting 2. Confirm sufficient generation for test

	Export Limit Test ($\leq 30\text{kW}$)	Generation Limit Test ($> 30\text{kW}$)
		3. Send generation limit and confirm adherence
Pass criteria	All steps completed within the 30-minute timeout window.	All steps completed within the 30-minute timeout window.
Fail criteria	Criteria not met, or a step exceeds the 30-minute timeout.	Criteria not met, or a step exceeds the 30-minute timeout.

Pass / Fail / Timeout Scenarios

Outcome	What It Means	What To Do
Pass	The site has been commissioned and no further action is needed. An on-screen message reads "Commission Installation."	- Click Commission Installation to close the notification and go to the Installation Record — status updates to Commissioned automatically. - Or click Back to return to the previous screen.
Fail	The installation status is updated to Awaiting capability testing, and the user cannot go ahead with commissioning.	- Review the error message(s) shown. - Re-initiate capability testing, or - Request help from the DNSP if issues persist after addressing errors.
Timeout	The test did not complete within the 30-minute window (e.g. ran late in the afternoon with insufficient sun or exceeded generation/export requirements).	- If it times out late in the day: trigger a re-test from the portal the following day — no site visit needed. - If the re-test also fails: an installer may need to return to site to check configuration or temporarily disable non-critical loads to provide sufficient export/generation. - For large solar sites where it's impractical to export a minimum of 500W: check the portal for updates, as test procedures for these cases are still being decided.

Common Error Messages

Error Message	Likely Cause / Context	Resolution
Site not connecting — Site must be connecting for export limit test to proceed. Meter reading value is	Export Limit Test — site is not establishing connection within the expected export range.	Check internet connectivity and confirm the site is exporting within the expected range, then re-run the test.

Error Message	Likely Cause / Context	Resolution
expected to be between -1700 W and -500 W.		
Test timeout — device registration verification failed. The device's registration could not be verified within the allotted time.	Device Registration Verification Test — device could not be verified in time.	Try again. If the problem continues, contact NSW CER Installer Portal support on 13 77 88, Monday to Friday, 7am–7pm.
Test timeout — capability test failed. The capability test has failed to complete all steps successfully within the allotted time.	Generation Limit Test — a step did not complete in time.	Check the error messages, troubleshoot, and re-run the test. If the problem persists, contact your distribution network service provider (DNSP).
System error — Capability test failed. The capability test has failed to complete due to a system error.	Portal-side system error, not related to site conditions.	Re-run the test later. If the problem continues, contact NSW CER Installer Portal support on 13 77 88, Monday to Friday, 7am–7pm.

Internet Connectivity

A stable internet connection is required to complete the Capability Test — the installed device must be able to successfully communicate with and respond to the DNSP network. If a fixed connection is not available, a mobile hotspot can be used as a temporary solution.

Portal Support Contact

CER Installer Portal support: 13 77 88
— Monday to Friday, 7am–7pm.

DNSP Support Contact

For connectivity or DNSP-network issues, contact your Distribution Network Service Provider (DNSP).

OEM Support Contact

For device registration related issues, contact your Original Equipment Manufacturer (OEM).