

## Wi-Fi Validation for Inverter

### Revision History

Version 1.0 – May 2026 - Initial release

### Applicable products and models:

EESOLAR Inverters and batteries

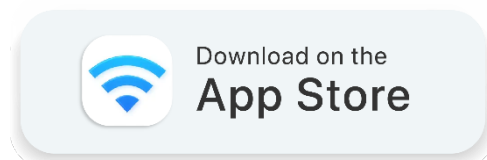
This application note is intended to ensure that the installation site has a stable Wi-Fi connection for system monitoring purposes.

\*Note that the inverter only supports 2.5GHz Wi-Fi networks; please verify that the customer's router is operating on or providing a 2.4GHz band before proceeding.

## 1. Setup

### Tools:

Use **WiFi Analyzer** (Android) or **Airport Utility** with the 'Wi-Fi Scanner' feature enabled (iOS).



### Location:

Stand at the exact location where the inverter will be installed.

### Requirements:

Ensure you have the customer's Wi-Fi network name (SSID) and password available.



## 2. Measurement & Criteria

Open the app, connect to the customer's Wi-Fi network, and check the signal strength in dBm.

Signal (dBm)	Status	Action
-30 to -60	Excellent/Good	<b>Approved</b> – Proceed with install.
-61 to -67	Marginal	<b>Conditional</b> – Only if no better spot is nearby.
-68 to -80	Weak	Alternative Wi-Fi connection required.

## 3. Decision Logic

### If the signal is weaker than -67 dBm:

Move 2 – 3 metres laterally and perform the test again.

### If the signal remains below the required level:

Escalate the issue to the Project Coordinator and recommend installing a Wi-Fi extender or mesh system.

## 4. Evidence & Safety

**Capture:** Take a screenshot of the dBm reading and attach it to the job record.

**Safety:** Always maintain a safe distance from live electrical components.

**Quality:** Do not estimate signal strength; always perform and record a physical measurement.