Starlink + Solar Installation Guide

Sample document showing detailed deployment procedure and acceptance testing

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Sample / Mock Project - For portfolio demonstration only.
No real client, personal, or confidential data is included.

1. Overview

This guide describes a standard field procedure for installing Starlink satellite internet with a solar-backed power system for remote connectivity. All site details are fictional and privacy-safe.

2. Scope

Includes site assessment, mounting, cable routing, solar wiring, router setup, testing, and handover documentation.

3. Tools and Materials

Category	Items (Sample)
Tools	Screwdrivers, wrench set, measuring tape, cable ties, drill (if mounting), multimeter
Starlink	Dish + router, power cable, dish cable, mount (tripod/pole/roof)
Solar/Power	Solar panel(s), charge controller, battery, fuses/breakers, grounding kit, weatherproof conduit
Network (Optional)	Ethernet adapter, external router, PoE injector (if needed)

4. Pre-Installation Checks

Complete the checks below before installation:

Check	Acceptance Standard	Sample Result	Notes
Sky visibility	Clear view; minimal obstructions	PASS	No obstruction detected in app scan
Mount area	Stable surface; wind-resistant	PASS	Pole mount selected; anchors tightened
Cable route	Secured and weatherproof	PASS	Conduit used; drip loop added
Power readiness	Controller + battery verified	PASS	Battery 12.7V prior to load
Grounding plan	Surge/lightning protection	PASS	Ground rod + bonding strap included

5. Installation Procedure

5.1 Mount the Starlink Dish

- Assemble mount and anchor securely using appropriate bolts/anchors.
- Place dish with clear sky view; avoid trees/buildings.
- Confirm dish cannot shift under moderate force.

5.2 Route and Secure Cabling

- Route dish cable through conduit or clips.
- Add drip loop before entry points.
- Label both ends: DISH and ROUTER.

5.3 Solar Wiring (High-level)

- Connect panel to charge controller (verify polarity).
- Connect battery to controller via fuse/breaker.
- Connect router load using regulated output or inverter (if AC).

5.4 Configure Starlink

- Power up router.
- Use Starlink app to set Wi-Fi name and password.
- Allow automatic alignment and calibration.

6. Testing and Acceptance (Sample Results)

Test	Acceptance Criteria	Sample Result	Status
Download speed	>= 50 Mbps	128 Mbps	PASS
Upload speed	>= 8 Mbps	18 Mbps	PASS
Latency	<= 60 ms	29 ms	PASS
Obstruction check	No persistent obstruction	None detected	PASS
Battery voltage (idle)	12.4V to 13.2V	12.7V	PASS
Charge current (sun)	> 0A	8.1A	PASS
Stability observation	No reboots for 60 min	Stable 90 min	PASS
Documentation	Complete and privacy-safe	Uploaded	PASS

7. Handover Package

Upload the following (privacy-safe):
- Photos: mount, cable routing, solar wiring (no serial numbers)
- Completed asset tracker entries
- Test results sheet
- QA/QC forms signed using initials only

Privacy Note: Do not include addresses, client names, account IDs, or serial numbers in portfolio versions.