

# Lagos Solar Hand-Over Checklist

12 points to tick before you sign off and pay the final balance. Independent, by **PhotoSynergy Technology**.

**Use this on commissioning day.** Tick each item only when you've personally verified it. If your installer pushes back, that itself is your answer. A competent installer expects to be checked.

- 1. Verify the inverter nameplate matches the quote**  
Open the inverter front panel sticker. The continuous AC output (VA) and brand/model must match exactly what the quote said. Off-brand swaps are the #1 commissioning fraud.
- 2. Verify each panel's serial number**  
Photograph every panel's serial-number sticker before installation. Check brand and Wp rating match the quote. Tier-1 panels carry holographic anti-counterfeit stickers.
- 3. Verify battery capacity**  
Read the battery nameplate. LiFePO4 should show usable kWh AND cycle life (3000+ at 80% DoD). Lead-acid shows Ah. Photograph it.
- 4. Confirm panel orientation and tilt**  
Panels should face roughly south (Lagos: 5–15° tilt; flat OK if cleanable). Reject installs where panels face north or any panel is shaded by another panel, tree, or water tank.
- 5. Inspect DC and AC wiring runs**  
DC cabling from panels to inverter must be sunlight-resistant ('TUV' or 'PV' on jacket) and conduit-protected. AC output to your load panel should be in metal trunking or in-wall.
- 6. Verify earthing and lightning protection**  
Copper earth rod and bonded earth wire must connect inverter chassis, panel frames, and battery rack. Without earthing, a single lightning strike (Lagos has 50+ thunderstorm days/year) writes off the entire system.
- 7. Test ALL appliances under solar load**  
Switch off the grid; run on solar+battery for 30 minutes. Run AC, fridge, and one high-draw appliance (kettle/microwave) together. If the inverter trips, it is undersized.
- 8. Confirm grid-tie / auto-changeover**  
Toggle the grid breaker off then on. The inverter must switch sources within 10 seconds without your intervention. Lights should not stay off.
- 9. Check the monitoring app**  
Every modern hybrid inverter has a phone app (ShinePhone, SolarMate, etc.). Confirm yours is set up, logged in to YOUR account (not the installer's), and shows live production + battery state.
- 10. Get all paperwork**  
Warranty certificates for inverter, battery, panels. Signed commissioning report. Single-line electrical diagram of your specific install. Without these, no warranty claim in 2 years when something fails.
- 11. Get installer SLA in writing**  
Response time when a fault is reported? Who pays for travel to your site? Is there a phone number and a person, or just 'send an email'? Free systems get free support. Paid systems should get paid support.
- 12. Withhold final payment until 1–11 are signed off**  
Standard Lagos practice: 50% on order, 25% on delivery, 25% on commissioning. Don't pay the final 25% until you've personally ticked every item above. Once they're paid in full, follow-up service mysteriously slows down.

Customer name & signature

Installer name & signature

Date

Date

Independent buyer's checklist. We do not sell panels off the shelf — we design, source, install, and warranty entire systems. If you need an independent second opinion, message us on WhatsApp at +234 701 234 5951 or visit [photosynergytechnology.com/courses/lagos-solar](https://photosynergytechnology.com/courses/lagos-solar).