

Solar PV inverter quarterly maintenance checklist

A quarterly PV inverter round is short on purpose: it catches the wear items that fail between annual services. This checklist is sized for a tech with a phone. Every item says what to look at and the photo that proves the round happened. Work is commonly verified against NEC (NFPA 70), manufacturer's published instructions. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The PV or electrical service tech on the quarterly round. When: Every quarter, energized during daylight so the unit is producing and cooling faults show under real load.

Status and production

- ☐ **Status indicators and event log reviewed**
Fault and warning history read from the display or portal, not just the front light, recurring trips noted for follow-up. 1 photo required
- ☐ **Output compared against the other units on site**
Instantaneous output read and compared against the other inverters or strings under the same sky, any low outlier flagged. 1 photo required

Cooling

- ☐ **Cooling fans, heatsink and filters checked**
Fans running, heatsink fins and intake filters clear, no dust blanket driving the unit into thermal derate. 1 photo required

Enclosure

- ☐ **Enclosure sealed and mounting secure**
Cover gaskets and cable entries sealed, no moisture, corrosion or pest signs inside, mounting and conduit tight to the wall. 1 photo required