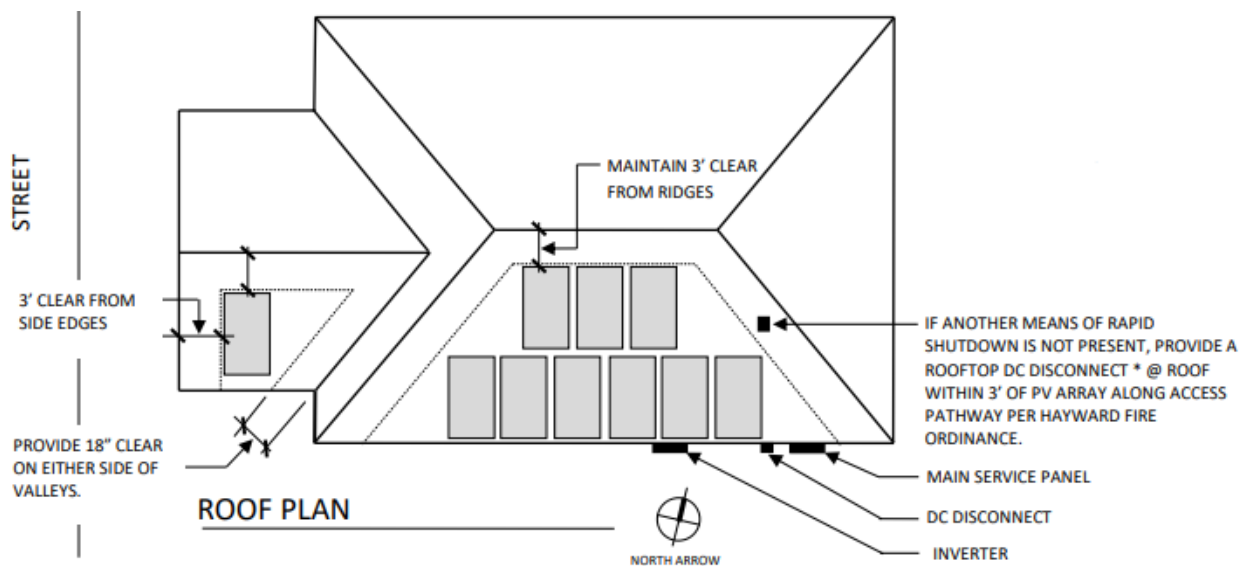


Residential 10Kw Maximum Photovoltaic System – Roof Mount Self-Inspection Program

Contractor shall provide photos demonstrating compliance with the following items.

- Module manufacturer, make, model, and number of modules match the approved plans. (CBC 107.4 - Amended Construction Documents) Modules are properly marked and labeled. (CEC 110.3, 690.4(B) & 690.51 or 690.52)
- Modules are attached to the mounting structure according to the manufacturer's instructions and the approved plans. (CEC 110.3(B), CBC 107.4).
- Roof penetrations are flashed to prevent moisture from entering the roof. (CRC Chapter 9, Section R903, R324.4.3)
- Firefighter access according to approved plan.



- Roof-mounted PV systems have the required fire classification [CBC 1505.9 or CRC R902.4].
- Separate grounding electrodes, if used, are bonded together. (CEC 690.47, 250.50 & 250.58)
- Equipment installed, listed and labeled according to the approved plan (e.g., PV modules, dc/dc converters, combiners, inverters, rapid shutdown equipment).
- Disconnects used in PV systems must be rated for the maximum short circuit current and voltage. A DC PV system disconnecting means shall be marked for use in PV systems or be suitable for backfeed operation. [CEC 110.3 & 690.13(E) and (F)]

- Inverter output circuit breaker is located at opposite end of bus from utility supply at load center and/or service panelboard. If panel is center-fed, inverter output circuit breaker can be at either end of busbar [CEC 705.12(B)] (not required if the sum of the inverter and utility supply circuit breakers is less than or equal to the panelboard bus rating).
- The markings on the conduits, raceways and cable assemblies are every 10 feet, within one foot of all turns or bends and within one foot above and below all penetrations of roof/ceiling assemblies, walls and barriers. (CEC 690.31(G)(4) CFC 605.11.1.4).
- All interior and exterior DC conduit, enclosures, raceways, cable assemblies, junction boxes, combiner boxes, and disconnects on buildings are marked. “The markings say “WARNING: PHOTOVOLTAIC POWER SOURCE” and have 3/8-inch (9.5 mm) minimum-sized white letters on a red background. The signs are made of reflective weather resistant material. (CFC 605.11.1.1, 605.11.1.2 & CEC 690.31(G)(3)).
- Rapid shutdown initiation device labeled on the plans. Device must be either: service disconnecting means, PV system disconnecting means, or readily accessible switch that plainly indicates whether it is in the “off” or “on” position (CEC 690.12(C))
- PV system disconnecting means labeled “PV SYSTEM DISCONNECT” and readily accessible (CEC 690.13(A) & (B). Disconnect may be an externally operable general-use switch or circuit breaker, or other approved means.
- Required Warning Labels

