



COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

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Photovoltaic System Required Signage

SIGNS SHALL BE WEATHERPROOF AND SUITABLE FOR THE ENVIRONMENT THEY ARE INSTALLED, LETTERING SHALL BE A MINIMUM LETTER HEIGHT OF 3/8" AND PERMANENTLY AFFIXED.

1. On the photovoltaic disconnect (Inverter) the following shall be labeled: CEC 690.53

"Rated Maximum power-point current (I_{pm}) _____,
Rated maximum power-point voltage (V_{pm}) _____,
Maximum system voltage (V_{oc}) _____,
Short circuit current (I_{sc}) _____,
Maximum rated output current of the charge controller _____"

2. A permanent plaque or directory, denoting all electric power sources on or in the premises, shall be installed at each service equipment location and at locations of all electric power production sources capable of being interconnected. CEC 690.5 & 705.10

3. At interactive points of interconnection, usually the main service, provide labeling stating: CEC 690.54

"Power Source ac operating current _____,
ac operating voltage _____"

4. At all disconnects where terminals may be energized in the open position provide labeling stating: CEC 690.17(E)

"Warning: Electric Shock Hazard.
Do not touch terminals. Terminals on both the line and
load sides may be energized in the open position"

5. Marking and labeling is required on all exposed dc raceways, enclosures, cable assemblies and junction boxes. The equipment shall be marked with materials permanently affixed or other approved permanent markings. The marking shall contain the words "PHOTOVOLTAIC POWER SOURCE". Marking shall be placed every 10 feet, above and below all penetrations of roof/ceiling assemblies and all walls and or barriers. The labels shall be reflective, and all letters shall be capitalized and shall be a minimum height of 3/8" in white on a red background. CEC 690.31(G)(4)

6. The PV power source system shall be labeled with the following warning at each junction box, combiner box, disconnect, and device where energized, ungrounded circuits may be exposed during service: CEC 690.35(F)

**“Warning
Electric Shock Hazard,
The dc conductors of this photovoltaic system
are ungrounded and may be energized”**

7. A warning label shall appear on the utility-interactive inverter or be applied by the installer near the ground-fault indicator at a visible location, stating the following: CEC 690.5(C)

**“Warning Electric Shock Hazard
If a Ground Fault Is Indicated,
Normally Grounded Conductors
May Be Ungrounded and Energized”**

When the PV system also has batteries, the same warning shall also be applied by the installer in a visible location at the batteries. The warning sign(s) or label(s) shall comply with 110.21(B)

8. Rapid Shut Down Labeling. Buildings or structures with both utility service and a PV system, complying with 690.12, shall have a permanent plaque or directory including the following words:

“PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN”

The plaque or directory shall be reflective, with all letters capitalized and having a minimum height of 3/8”, in white on red background. CEC 690.56(C)

9. A permanent warning label shall be applied to the distribution equipment adjacent to the back-fed breaker from the inverter that displays the following or equivalent wording: CEC 705.12(D)(2)(3)(b)

**“Warning
Inverter Output Connections Do Not
Relocate This Overcurrent
Device”**

10. Where panelboards are back-fed by multiple sources a permanent warning label shall be applied to the distribution equipment that displays the following or equivalent wording: CEC 705.12(D)(2)(3)(c)

**“Warning:
This Equipment Fed by Multiple Sources,
Total Rating of all Overcurrent Devices,
Excluding Main Supply Overcurrent Device,
Shall Not Exceed Ampacity of Busbar”**