



City of Claremont

Building Division

Photovoltaic System Submittal Checklist

Three complete sets of plans shall be submitted, and must include the following:

(Note: all ground-mounted systems must have Planning Division approval.)

All plans must be drawn to scale and fully dimensioned.

Provide plot plan with dimensions for property lines and setbacks.

Plans designed by an Electrical Engineer must have a wet seal and signature.

Provide a plan view drawing to include:

- Array rooftop layout. Indicate overall height of installation from nearest adjacent grade
- Show all raceway and cable runs, junction boxes, disconnects, inverters, subpanels, etc.
- Provide a single line diagram, including point of connection at service panel.

Provide UL Report approval number or appropriate listing for photovoltaic array per CEC 690.4(D)(1703)

Provide UL Report approval number or appropriate listing for inverter per CEC 690.4(D)(1741)

Provide disconnecting means for alternating current (AC) modules per CEC 690.6(C) & 690.13

Provide system grounding per CEC 690.41

Provide equipment grounding per CEC 690.43 and size equipment grounding per CEC 250.122

All metallic raceways and equipment shall be bonded and electronically continuous.

Provide utility point of interconnection:

- For Residential applications, the combined overcurrent protection cannot exceed 120% of the buss rating per CEC 690.64
- For Commercial applications, the combined overcurrent protection cannot exceed 100% of the buss rating per CEC 690.64

Provide circuit breaker or fuse. When a back fed breaker is the method of utility interconnection, the breaker shall be listed for that purpose.

Circuit breakers shall be of the same manufacturer as the main electrical service.

Provide warning labels per CEC 690.17(4) or an approved equivalent. See signage/warning label requirements on reverse side.

Required Signage and Warning Labels

(Language of signage/labels is in quotes)

Signage

Signage shall be permanent plastic signs composed of a red background with white engraved letters.

Minimum size of placards shall be 3" x 4" (note this on plans).

Provide permanent signs at the following (language may be equivalent):

- Disconnect – "TERMINALS ON BOTH LINE AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION"
- Point of interconnection – "MAXIMUM AC OUTPUT OPERATING CURRENT and the OPERATING AC VOLTAGE"
- All AC disconnects – "PHOTOVOLTAIC ARRAY AC DISCONNECT SWITCH"
- All DC disconnects – "PHOTOVOLTAIC ARRAY DC DISCONNECT SWITCH"

Warning Labels

Warning labels shall be reflective, weather resistant and suitable for the environment. Warning labels shall be placed on interior and exterior direct-current (DC): conduit, enclosures, raceways, cable assemblies, junction boxes, combiner boxes and disconnects.

Warning labels shall be located every 10 feet, within 1 foot of turns or bends, and within 1 foot above and below penetrations of roof/ceiling assemblies, walls or barriers.

Labels shall read (or equivalent): "WARNING: PHOTOVOLTAIC POWER SOURCE"