



**CITY OF SANTA CLARITA
Building & Safety Division**

WORKSHEET FOR PHOTOVOLTAIC SYSTEM PLAN CHECK

(This worksheet is NOT to be used for AC modules or micro-inverter systems)

ONE WORKSHEET IS REQUIRED FOR EACH INVERTER-SYSTEM

All information requested on this form must be provided with the permit application in order to be considered for an over-the-counter plan check. Approval of plans by the Los Angeles County Fire Department, and the City of Santa Clarita’s Planning and Development Services divisions is required for roof and/or ground-mounted systems prior to applying for a building permit.

Supplied Information

(Check “Yes” or “No”)

- Basic site diagram supplied with the permit package Yes No
- Location of major equipment identified on plans Yes No
- One-line diagram supplied with the permit package Yes No
- Array configuration shown Yes No
- All wiring identified by type and size Yes No
- All conduit identified by type and size Yes No
- Main disconnect specified Yes No
- Inverter specified and cut sheet provided Yes No
- Modules to be used specified and cut sheet provided Yes No
- System grounding specified and details provided Yes No
- Racking system detailed on the plans Yes No
- All required signage specified on the plans Yes No

Inverter Information

Inverter Model No.: _____

_____ Watts: Max continuous output **power**

_____ Volts: Max DC **voltage** rating of inverter

Photovoltaic (PV) Module Information

(all values are based on the Standard Test Conditions-STC)

Module Model No.: _____

_____ Volts: Open-circuit **voltage** (*Voc*)

_____ Volts: Maximum power **voltage** (*voltage at Pmax*) (*MPP*)

_____ Amps: Short-circuit **current** (*Isc*)

_____ Amps: Maximum series **fuse rating**

_____ Watts: Maximum **power** (*Pmax on Label*)

_____ Amps: Maximum **current** (*Current at Pmax*)

Array Information

(Provide a separate worksheet for each inverter)(Highest number of modules in any single string shall be used for voltage calcs)

_____ Number of modules in each string (*different number of modules in strings shall be listed separately*)

_____ Number of strings in this system

_____ Total number of modules in this system

_____ (*Volts DC*) **Operating voltage** (*number of modules in each string x module voltage at Pmax*)

_____ (*Amperes*) **Operating current** (*number of strings x module current at Pmax*)

_____ (*Volts DC*) **Maximum system voltage** (*690.7- the sum of the rated open-circuit voltage of the series-connected modules multiplied by 1.12 temperature factor from Table 690.7*)

**(See next sheet for Monocrystalline panels)*

***Monocrystalline Module Maximum System Voltage Calculation:**

{[Voc Coef x (-5⁰C - 25⁰C)] + Voc (STC)} x # of modules in series = Max. Sys. Voltage w/temp. adjustment.

Calculation: _____

Wiring

_____ **(ONLY IF A COMBINER BOX IS USED)** Specify the minimum PV source circuit conductor ampacity (*number of strings x ISC x 1.56*) or mark: "N/A"

Overcurrent Protection

Specify the point-of-connection location on the existing service panel: **Load side** _____ **Supply side** _____

_____ (*Amperes*) Specify the **overcurrent protection** at the main panel point of connection of the PV system. (*i.e. 2pole, 30amp, etc.*)

_____ (*Amperes*) **Point of connection busbar rating** (*main panel bus rating*)

_____ (*Amperes*) **Main breaker** for the service (*i.e. 200amps, 100amps, etc.*)

Roof Information

_____ Weight of the array for the rooftop system, in pounds per square foot, including mounting hardware

_____ Identify roofing type (*e.g. comp shingle, masonry tile, wood shake, etc.*)

Ground Mounting Structure for Ground-Mounted Structures)

NO OVER-THE-COUNTER PLAN CHECK WILL BE PERFORMED ON GROUND-MOUNTED ARRAYS

Separate structural review of the proposed support structure and proposed location must be performed, in addition to the regular plan check. These types of systems must be submitted for regular plan check. This worksheet must be provided.

Details of the array supports, framing members, and foundation posts and footings provided Yes No

Information on mounting structure(s) construction provided (*If the structure exceeds 6 feet in height from finished grade at any point, engineering is required*) Yes No

Detail showing the module attachment method to the structure provided Yes No

PLEASE REVIEW THE FOLLOWING INFORMATION IF OAK TREES ARE PRESENT

- Oak trees cannot be trimmed back to accommodate for the solar modules. This applies to both roof and ground-mounted installations.
- The panels must be located in an area to accommodate the oak trees (*which were there first*) and are protected by City ordinance.
- The location should take into consideration the future growth of existing oak trees. Oak trees can and will grow to a height of 70 feet.
- Removal of oak trees will not be approved to accommodate ground-mounted solar modules. The resident will have to explore other options (*roof-mounted, for example*).
- Roof-mounted installations that have no required trenching or conflict with the canopy of the oak tree may be approved without an inspection.
- All ground-mounted applications should be forwarded to the Urban Forestry division for a quick review to see if a site inspection is necessary.