



Solar Power System Worksheet

City of Corning

794 Third Street ♦ Corning, CA ♦ 96021

530-824-7033 ♦ www.corning.org

Company:

Address:

Name:

Phone:

Cellular:

Contractor's Lic. #:

Signature: _____

For all systems provide two sets:

Electrical schematic diagram of system (module wiring (series/parallel), disconnects, grounding/bonding, wire, conduit type, size, and number of conductors in each section of conduit). When batteries are to be installed include them in the diagram and the locations/rooms and venting

Site diagram (show arrangement of panels on the roof, location of combiner box, inverter, utility disconnect, main service, show approximate distance from panel to all components)

Equipment cut sheets including inverters, modules, wind generators, etc.

Cost breakdown of solar equipment, labor, structural for ground mount

Completed page two, the System Summary sheet

Complete signage plan

Roof-Mounted Systems

Engineered or listed system for mounting and attachment of system.

Weight of array: _____ psf

Roof type: _____ Truss _____ Cut and stack

If the roof is cut and stack, provide the following:

Size of rafters:

Span of rafters:

Spacing of rafters:

Ground Mount and Wind Generator Systems

Engineering (when the total height from ground to top of the array (not post height) exceeds 6 feet) for mounting, attachments, and foundation to meet the minimum wind and snow loads.

Provide details of attachments, anchors, brackets, photovoltaic panels, and all hardware

Plot plans (dimension all setbacks to all structures and property lines)



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System Summary

Roof Mount

Ground Mount

Off-Grid

Grid Tie

Inverter

Number of Inverters:

Model Number:

DC Input Voltage Range:

Listed for Utility Interconnection:

Inverter Continuous AC out current rating:

Inverter output conductor sizing (listed continuous output x 1.25) CEC Section 690.8 (3) and 690.8 (B)(1)

Modules

Total # of modules per inverter:

Model Number:

From the module listing

*Maximum system voltage:

Open-circuit voltage (Voc):

Short-circuit current (Isc):

Voltage at Pmax:

Maximum series fuse rating:

Current at Pmax:

Calculated system voltage:

(Voc x # of modules in series x 1.13) NEC 690.7

Calculated system voltage must be less than or equal to the *Maximum system voltage.

Array information

Total number of modules:

Number of modules in each series:

Number of parallel source circuits:

Operating voltage:

volts (Voltage at Pmax x number of modules in series)

Operating current:

amps (Current at Pmax x number of strings in parallel)

Minimum PV source circuit ampacity for conductor sizing:

(Isc x number of parallel circuits x 1.25 x 1.25) NEC 690.8A-1, 690.8B-1 and NOTE 2.

Explanation: To determine wire sizing and over current protection you must determine the minimum source circuit conductor ampacity which is 125% of the maximum PV source circuit current ampacity (NEC 690.8.A-1). The maximum PV source circuit current ampacity is 125% of the source circuit ampacity or Isc (NEC 690.8B-1).

NOTE 1: All wiring rated at 90 degrees and equipment on array side of the inverter must be DC rated.

NOTE 2: Further ampacity adjustments are necessary when more than 3 current carrying conductors are installed in the conduit. See NEC Table 310.15(B)(2)(a)