

PV System Checklist System Summary Sheet

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Submittal Checklist

For all systems provide three sets of:
[] 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 there locations/rooms and venting.
[] Site diagram (show arrangement of panels on the roof, location of combiner box, inverter, utility disconnect, main service, show approx. 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.
For Roof Mounted Systems Provide:
[] Engineered or listed system for mounting and attachment of system.
[] Is the fire-rating of the roof shingles consistent with the fire-rating of the solar panels? (Yes or No) (The roof shingles and the solar panels <u>must have the same fire-rating</u> .)
[] Weight of array: psf
[] Roof type: Truss Cut and stack
[] If the roof is cut and stack, provide the following: a Size of rafters b Span of rafters c Spacing of rafters
For Ground Mount and Wind Generator Systems Provide:
[] 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.
Provide plot plans (dimension from all setbacks to all structure and property lines).

<u>S</u>	<u>ystem</u>	<u>Summary</u> :

[] Roof Mount	[] Ground Mount			
[] Off-Grid	[] Grid Tie			
<u>Inverter(s)</u> :				
Number of Interter(s)	Model Number			
DC Input Voltage Range	Listed for Utility Interconnection (Y) (N)			
Inverter Continuous AC out current rating Inverter output conductor sizing: (listed continuous Modules:				
Total # of modules per inverter	Model Number			
From the module listing: ** Maximum system voltage Short-Circuit current (Isc) Max series fuse rating	Open-circuit voltage (Voc) Voltage at Pmax Current at Pmax			
<u>Calculated system voltage</u> = (V x number	of modules in series x 1.13)			
< Calculated system voltage must be less than	or equal to the **Max system voltage >			
Array Information:				
Total number of modules	Number of modules in each series			
Operating voltage: volts (Voltage at Pmax times number of modules in series)				
Operating current: amps (Current at Pmax times number of strings in parallel)				
Minimum PV source circuit ampacity for conducto (Isc x number of parallel circuits x 1.25 x 1.25) Explanation: To determine wire sizing and over-cur Source circuit conductor ampacity, which is 125% of (NEC 690.8[A][1]). The maximum PV source circuit Ampacity or Isc (NEC 690.8[B][1])	(CEC 690.8[A][1], 690.8[B][1], and NOTE 2). Trent protection you must determine the minimum the maximum PV source current ampacity			
NOTE 1: All wiring rated and 90 degrees Celsius and equip	ment on array side of the inverter must be DC rated.			
NOTE 2: Further ampacity adjustments are necessary when In the conduit (See CEC Table 310.15[B][2][a])	· ·			