



STREAMLINED SOLAR CHECKLIST

CITY OF MERCED COMMUNITY DEVELOPMENT/INSPECTION SERVICES

BUSINESS PHONE: (209)385-4773

INSPECTION REQUEST- 24 HOUR RECORDER: (209)723-2489

This checklist must be completed by the contractor or an authorized agent of the contractor in order to determine if the roof top solar project is eligible for streamlined solar permitting.

GENERAL REQUIREMENTS:

- System size is 10 kW AC CEC rating or less. YES NO
- The solar array is roof-mounted on one- or two-family dwelling. YES NO
- The solar system is utility interactive and without battery storage. YES NO
- Installation of the system will not require any excavation more than 10 feet from the structure the solar panel/module arrays are mounted on. YES NO
- A minimum clear space of three feet is provided on the control side of roof mounted HVAC equipment. YES NO

ELECTRICAL REQUIREMENTS:*

- No more than four photovoltaic module strings are connected to each Maximum Power Point Tracking (MPPT) input where source circuit fusing is included in the inverter. YES NO
- No more than two strings per MPPT input where source circuit fusing is not included. YES NO
- Fuses (if needed) are rated to the series fuse rating of the PV module. YES NO
- No more than one noninverter-integrated DC combiner is utilized per inverter. YES NO
- For central inverter systems: No more than two inverters are utilized. YES NO
- The PV system is connected to the load side of the utility distribution equipment. YES NO
- A Solar PV Standard Plan and supporting documentation is completed and attached illustrating disconnects, AC/DC, wiring sizing, panel size. YES NO

*VERIFIED BY CONTRACTOR'S SITE AUDITOR OR AUTHORIZED SITE AUDITOR

1. Size of existing service main:
 200 amp 125 amp 100 amp other please specify _____
2. Will the service main be upgraded and / or replaced? Yes No
3. Size of new service main:
 200 amp 125 amp 100 amp other please specify _____

ROOF REQUIREMENTS:

*VERIFIED BY CONTRACTOR'S SITE AUDITOR OR AUTHORIZED SITE AUDITOR

1. The roof has a single roof covering without a reroof overlay. YES NO
2. Has the roof structure been verified to be structurally sound, without signs of alterations or significant structural deterioration or deflection? YES NO
3. Roof Structure Data:
- a) Measured roof slope (e.g. 6:12): _____
- b) Measured rafter spacing (center to center): _____
- c) Type of roof framing (rafter OR manufactured truss) Rafter Truss

FIRE SAFETY REQUIREMENTS:

- Access pathways at least three feet in width are provided on hip roofs from the eave to the ridge. Panels shall be located at least 18 inches from a hip or valley if located on both sides of a hip or valley. YES NO
- Access pathways at least three feet in width are provided between multiple arrays. YES NO
- To allow for smoke ventilation there is a minimum of three feet between the ridge and the panels. YES NO
- There are no conductors within the three foot area between the panels and the ridge which are closer than 12 inches of the roof sheathing. YES NO
- The panel fire classification is provided and meets the rating required for the structure. YES NO
- The plans include a sheet showing the location and verbiage of the required labels YES NO

SOLAR ARRAY REQUIREMENTS:

- Is the distance between the underside of modules and the roof surface at least two inches but not greater than 10 inches? YES NO
 - Is the plane of the modules (panels) parallel to the plane of the roof? YES NO
 - The layout of the modules is designed to not overhang any ridges, hips, gable ends and eaves. YES NO
 - Has the weight of the modules plus support components been verified to weigh no more than: 4 psf for photovoltaic arrays or 5 psf for solar thermal arrays? YES NO
 - Are the support component manufacturer’s project-specific worksheets and tables completed with relevant information identified? YES NO
 - Is a roof plan of the module and anchor layout included in the plans? YES NO
- For additional measures refer to the California Solar Permitting Guidbook, Toolkit Document #5*

PERMIT ISSUANCE REQUIREMENTS:

If any items are checked NO, the project is not eligible for streamlined solar permitting and must go through the standard application process.

AGREEMENT:

As the responsible contractor site auditor or authorized site auditor agent for the project I understand that I am responsible for the accuracy of all information provided in this application. I also understand that revisions to this project will result in a revised application and plan review submitted to the building department which will not be eligible for expedited solar permit issuance. Further review or inspections may result in additional Plan review and/or Inspection fees.

Contractor/Authorized Agent Name: _____

Contractor/Authorized Agent Signature: _____ Date: _____

NOTES and OTHER INFORMATION: