



Roof Mounted PV | Plan Checklist

Use this form as a general checklist for your roof mounted photovoltaic (PV) plans. Please provide the following plan views on separate sheets.

➤ **Roof Plan View**

- Provide birds eye view or **roof layout** showing ridges and valleys of roof.
- Specify **roof assembly** including roof covering type, pitch, rafter span, and rafter type.
- Show **PV modules arrangement** on roof clearly indicating count of modules.
- Specify **racking system**, show location of all anchors, and indicate anchor spacing.
- Show all required **roof access**, width of pathways, width of ridge setback ([CRC 324.6](#), [CFC 1204.3](#)).
- Show location of all **electrical equipment** including panel enclosures, disconnects, inverters, batteries, and other electrical equipment.
 - Show **accessory structures** if electrical equipment is located on them.
 - If **underground raceways** are used provide a cross section of trench indicating trench depth, conduit size/type, conductor sheathing type, and backfill type ([CEC 300.5](#)).

➤ **One-Line Diagram**

- Show **all equipment** with their model numbers and required clearances. All equipment shall be listed as follows.
- Show number of **PV modules** per string and provide the following specifications.
 - PVUSA Test Conditions (PTC)
 - Open circuit voltage (Voc)
 - Short circuit current (Isc)
- Show all **disconnects** and indicate AC or DC power ([CEC 690.13](#), [CEC 690.15](#)).
- Show **rapid shut down** device ([CEC 690.12](#)).
- Show **conductor** size, sheathing type, temperature rating, ampacity, and metal type ([CEC 310.14](#)).
- Show **conduit** size and type.
- Show **grounding electrode** system and specify type ([CEC 250.52\(A\)](#)).

➤ **Sticker Layout**

- Show **stickers** and location to be used or note applicable sections from [CEC 690 Part VI Marking](#).
- Show **engraved placard** if power source disconnecting means are not ALL at one location ([CEC 705.10](#)).

➤ **Data Sheets, Engineering, and Specifications**

- Provide data sheets, engineering and/or specifications for the following equipment.
 - All **electrical equipment** including PV Modules, racking/mounting system, inverter, batteries, combiner box, and transfer Switches. Equipment shall be listed as follows.
 - ❖ PV Modules – UL 1703 OR with both UL 61730-1 and UL 61730-2
 - ❖ Racking – UL 1703 OR UL 2703
 - ❖ Devices and Ground Lugs – UL 2703
 - ❖ Inverters, Converters, Controllers, Rapid Shutdown Devices – UL 1741
 - ❖ Energy Storage Systems – UL 9540
 - Structural engineering for **ag-exempt structures** supporting PV modules and **over spanned rafters** per Solar Toolkit 5. (<https://solarequipment.energy.ca.gov/Home/Index>)

Notes:
