



Ground Mounted PV | Plan Checklist

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

➤ **Site Plan**

- Show all **site features** as indicated by the [site plan checklist](#).
- Provide birds eye view of **panel layout** showing module count and setbacks to other structures, property lines, easements, and wetlands.
- 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](#)).

➤ **Racking & Foundation System**

- Specify the type **racking system** to be used including model number.
- Specify the **anchor/foundation** type, spacing, and depth.

➤ **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

Notes:
