**PV SYSTEM LABELING**

Requirements for the 2023 National Electrical Code

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**General Labeling Guidance**

There are several marking and labeling requirements for PV systems and a variety of interpretations. This document provides a summary of the most common requirements and an example of each location. Because of the wide range of installations, systems may require fewer labels, or additional labels not outlined here. When providing code-required markings, consideration should be given to environmental conditions and overall clarity of the content relative to its location. Excessive labeling may be confusing. Red and white labels should only be used when required by a specific code or ANSI standard. Section 110.21(B) requires permanent labels, not handwritten, and suitable for the environment in which they are installed. It also recommends the labels to follow ANSI Z535.4-2011 Product Safety Signs and Labels.

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### DC Raceway Label

Section 690.31(B)(2)
- On or in a building, unless location/purpose is evident
- Raceways, enclosures, every 10', suitable for environment
- Minimum 3/8" CAPS, White on Red

### PV Array

- **PV SYSTEM DISCONNECT**
- **AC COMBINER**
- **PV METER**

### DC PV Circuits

Section 690.7
- Max system voltage calculated in accordance with 690.7
- One of the following locations:
  - DC PV system disconnect
  - PV system electronic power conversion equipment
  - Distribution equipment associated with the PV system
- Marked with the following wording:

### "AC Combiner Panel"

Section 705.12(B)(3)
- Sum of amperes ratings, excluding source OCPD
- Label applied adjacent to distribution equipment
- The following or equivalent wording:

### PV System Disconnect

Section 690.13(B)
- See Figure 705.1 diagrams for location in system
- Disconnects PV from all other wiring systems
- Installed in a readily accessible location
- Permanently marked: PV SYSTEM DISCONNECT, or equivalent
- Where line/load may be energized in open (off) position:
- *Marked with the following or equivalent:

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**Source Connection**

- **PV METER**
- **UTILITY METER**
- **SUPPLY SIDE CONNECTION**
- **LOAD SIDE CONNECTION**

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**PV System Disconnect Identification**

Example of PV System Disconnect Identification

- **PV SYSTEM DISCONNECT**
- **Example of Line/Load Energized marking**

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**Identification of Power Sources**

2021 NFPA 1: Section 11.12.2.1.5
- Adjacent to the main disconnect
- Provides name and emergency phone number of company currently servicing the PV system

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**Buildings with Rapid Shutdown**

Section 690.12(D)
- Located at each service equipment location where PV is connected "or approved readily visible location"
- Shall indicate location of rapid shutdown initiation devices
- Shall include simple diagram of building and roof
- Minimum 3/8" CAPS, text shall contrast the background

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**Overcurrent Protection Marking**

Section 705.30(C)
- Equipment containing overcurrent devices
- Supplied from interconnected power sources
- "Marked to indicate the presence of all sources"

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**Service Disconnect Directory**

Sections 690.56/705.01
- Permanent plaques, labels, or directories installed at either:
  - Each service equipment location
  - Approved readily visible location
- Marked with the following wording:
- Denote location of each power source disconnect
- Marked with the following wording:

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