

National Electrical Code Solar Photovoltaic Systems Laminated Quick Card Based on the 2014 NEC

NATIONAL ELECTRICAL CODE SOLAR PHOTOVOLTAIC (PV) SYSTEMS
QUICK CARDS
 A Practical Reference Handbook

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SOLAR PHOTOVOLTAIC (PV) SYSTEMS - GENERAL REQUIREMENTS & IDENTIFICATION

GENERAL REQUIREMENTS (2014 NEC)

- Photovoltaic systems must be permitted to include a building or other structure in addition to any other electrical system applications.
- Hardware, wiring, enclosures, photovoltaic (PV) panels, or PV modules, or components, as to be reviewed and approved by the authority having jurisdiction for use only when systems must be listed or UL recognized.
- The installation of equipment and all associated wiring and components must be done in accordance with the applicable code.
- A PV system must be provided to have suitable fire-rated enclosures or an enclosure having an enclosure.
- When the system is normally located from each other in a building in accordance with the applicable code, it shall be as follows:
 - As a PV system (grounding means, of such as disconnecting means and of the low-voltage grounding means affecting the installation of all AC or DC PV system (grounding means) in the building.

SOLAR PV SYSTEM COMPONENTS & IDENTIFICATION

COMPONENTS & DEFINITIONS

Panel Array: The array of solar cells that generate electricity when exposed to light.

Panel: A collection of modules, or modules, connected together, which are designed to provide their maximum output.

String: A continuous string of solar modules or modules in series with a support structure and hardware, trusses and other components, as required to form a complete system producing output.

GROUND FAULT DETECTION & INTERRUPTION

- To reduce the fire hazard associated with PV system ground faults, ground fault detection and interruption (GFI) devices shall be installed in accordance with the applicable code.
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Types of Solar Photovoltaic (PV) Systems

- Interconnected with other electrical power production facilities, such as a utility, power plant, generator, and so on.
- Stand-alone, with electrical energy storage such as batteries.
- Stand-alone, without electrical energy storage.

INTERACTIVE SYSTEM

Photovoltaic system connected to the utility grid.

HYBRID SYSTEM

Stand-alone system with energy storage and other power production facilities.

STAND-ALONE SYSTEM

Photovoltaic system connected to a charge controller.

Labels & Markings

WARNING

AC MODULE SYSTEM

Photovoltaic system connected to the utility grid.

Filesize: 2.11 MB

Reviews

The very best book i actually read through. I have got read through and i am certain that i will likely to read through yet again yet again down the road. I realized this ebook from my dad and i suggested this book to learn.
 (Alfreda Barrows)

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