Definitions

NFPA-70 (NEC) 690.2
Defines the following:
- Alternating current (AC) module
- Array
- Module
- Direct current (DC) combiner

Labeling & Marking

NFPA-1 Fire Code 11.12
Labeling and markings of:
- PV system rapid shutdown
- Disconnecting means
- Identification of power sources
- Building integrated PV systems
In addition, labels and marks must meet visibility requirements.

Rooftop access and ventilation:
- General requirements
- One- and two-family dwellings and townhomes
- Non-family dwelling and townhome buildings
- Pathways

Ground-Mounted PV system installation:
- Clearances
- Vegetation management plan

Maximum Voltage Circuit Sizing Disconnecting Means

NEC - Article 690
Maximum voltage of output circuits:
- Shading
- PV source output circuit
- Single DC-to-DC converter
- Bipolar source

Circuit sizing and current:
- Maximum current
- Overcurrent protection

Disconnecting means:
- Rapid shutdown
- PV system disconnecting means
- Disconnecting means for isolating PV equipment

Solar-Ready Provisions

IECC DB 103
Topics covered:
- Shading
- Capped roof penetrative sleeve
- Interconnection pathways
- Electrical service reserved space
- Construction documentation certificate

IECC CB 103.5
- Solar ready zones

IECC - International Energy Conservation Code
IRC - International Residential Code
ICB - International Commercial Building
NFPA - National Fire Protection Association
NEC - National Electrical Code

For more information and additional resources visit irecusa.org and sustainableenergyaction.org.
There are two main model codes for solar thermal systems. The International Residential Code and the International Mechanical Code.

**International Residential Code**

**IRC M2301**

Code sections include:

- General principles
- Design and Installation
- Label/marking
- Heat transfer gases and liquids
- Potable water
- Air filtering

**International Mechanical Code**

**IMC 1401, 1402, 1403, 1404**

- IMC 1401: General principles of solar thermal systems
- IMC 1402: Design and installation, system protections, and system equipment
- IMC 1403: Heat transfer fluids
- IMC 1404: System equipment labeling

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