

System

New Rooftop Residential PV Systems Only

Installed by contractor with all licenses required by jurisdiction

No building integrated solar systems

Electrical

Limited to 2017 NEC

600V Max per DC System Size

Single phase only

No Aluminum Wires

Must Use 600V rated PV wire (due to outer diameter > 0.24" (6.1mm))

Must use 90 deg C rated insulated wire

Height of rooftop conduit > = 7/8"

Max 2 DC strings in parallel

Max 9 current carrying conductors in a raceway

Inverter output circuit conductors must be THWN-2, or listed NM

Terminals must be rated to 75 deg C, labeled for use with Cu wires, and accept minimum 8 AWG wire

If using microinverter, 1 module per microinverter

Permitted to install on up to or equal to 400A Service

Permitted to install on up to or equal to 225A Service Disconnect

Permitted to install on up to or equal to 225A busbars

No existing PV on site

May install only 1 module type

May install only 1 racking system type

May install up to 2 Inverters for String Inverters, up to 1 inverter type for Micro-inverters and AC modules Systems

Conduit may not be Schedule 80 PVC

Single Family Dwelling Only

Modules and Inverters must be listed on CEC

Rapid Shutdown cannot be satisfied using the method: No exposed wiring or conductive parts [690.12(B)(2)(3)]

Flat Plate PV Modules Only

No trenching allowed

All power production inverter outputs have the same point of connection

Structural

2018 IBC

PV system + hardware weight is less than or equal to 4psf

Limited to 10" above the roof for pitched (>2/12) roof

No metal roof or low-slope roof in areas with > 15psf snow load

No wood shake or wood shingle roofing

No carports or non-permanent structures

No ground mounted systems

Only one type of mounting hardware system per project

Fire

2018 IRC