

| <b>System</b>  |
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| Lithium Ion  |
| New Rooftop Residential PV Systems With Energy Storage Systems   |
| Installed by contractor with all licenses required by jurisdiction   |
| No building integrated solar systems   |
| <b>Electrical</b>  |
| 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 or ESS  |
| 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   |
| ESS must be paired with new PV at this time  |
| All power production inverter outputs have the same point of connection  |
| AC Coupled ESS may not be connected in parallel  |
| <b>Structural</b>  |
| 2018 IBC   |
| PV system + hardware weight is less than or equal to 4psf  |
| Limit of 10" above the roof for pitched (>2/12) roof systems   |
| 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  |
| ESS Must be less than 400lbs in seismic areas  |
| <b>Fire</b>  |
| 2018 IRC   |