



Solar PV Checklist – For Expedited Review for One- and Two-Family Dwellings

REQUIRED ELIGIBILITY CHECKLIST FOR EXPEDITED ROOFTOP RESIDENTIAL SOLAR FOR 10KW OR LESS (as of 11/1/19)

REDDING ELECTRIC UTILITY REQUIREMENTS for all system sizes Residential and Commercial

Customer Name:	Address:	Utility Account Number:
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- A. Interconnection Agreement [2 Originals (all pages), completed and *signed in ink by customer – no electronic signatures will be accepted*] Yes No
- B. Completed Solar PV Information Sheet Yes No
- C. Energy Calculation Forms ECON-1 and ECON-2 (New construction only) Yes No
- D. Copy of signed and dated project contract with all equipment specifications and cost Yes No
- E. Provide one-line or three-line electrical drawing Yes No
- F. Site map drawn to scale (minimum 1:20), arrow indicating true north, roof plans showing module locations and layout (note array azimuth orientation and tilt), required Fire Department setbacks. Show main service location, A/C disconnect, inverter, combiners, and all equipment for the system and locations for the equipment. Yes No
- G. Provide equipment cut-sheets Yes No

The above information must be provided to and approved by Redding Electric Utility prior to submitting for a Building Permit for all installations regardless of system size.

Any alterations to PV system size must have prior approval by REU before submitting changes to the City of Redding Building Division.

Solar PV generator number issued by Redding Electric Utility. Gen # _____

The criterion below is intended for an expedited solar permitting process. If any items are checked NO, revise design to fit within Eligibility Checklist, otherwise permit application WILL go through our standard process.

GENERAL REQUIREMENTS

- A. System size is 10 kW AC CEC rating or less. Yes No
- B. The solar array is roof-mounted on **permitted** one- or two-family dwelling built after 1970 or **permitted** accessory structure serving such dwelling(s) with **permitted** electrical services. Yes No
- C. The solar panel/module arrays will not exceed the maximum legal building height. Yes No
- D. Solar system is utility interactive and without battery storage. Yes No
- E. Permit application is completed and attached if submitting in the office (over the counter). Note: If submitting in the office two (2) sets of plans are included that are of 11 X 17 minimum size. Plans shall include a site map drawn to scale (minimum 1:20), arrow indicating true north, roof plans showing module locations and layout, required Fire Department setbacks. Show main service location, A/C disconnect, inverter, combiners, and all equipment for the system and locations for the equipment. For further information on solar, go online to: <http://www.cityofredding.org/departments/development-services/building/building-handouts> Yes No
- F. Provide manufacturer’s installation and grounding instructions for modules. Yes No
- G. Provide manufacturer’s specification (cut sheets) for all components, but not limited to: 1. Modules 2. Inverter 3. Micro-inverter 4. Power Optimizers 5. Mounting/racking systems Yes No

ELECTRICAL REQUIREMENTS

- A. No more than four photovoltaic module strings are connected to each Maximum PowerPoint Tracking (MPPT) input where source circuit fusing is included in the inverter Yes No
 - 1. No more than two strings per MPPT input where source circuit fusing is not included Yes No
 - 2. Fuses (if needed) are rated to the series fuse rating of the PV module Yes No
 - 3. No more than one non inverter-integrated DC combiner is utilized per inverter Yes No
- B. For central inverter systems: No more than two inverters are utilized. Yes No
- C. The PV system is interconnected to a single-phase AC service panel of nominal 120/220 Vac with a buss bar rating of 225 A or less. Yes No
- D. The PV system is connected to the load side of the utility distribution equipment. Yes No
- E. One-line or three line electrical drawings. Yes No
- F. Electrical system string calculations. Yes No
- G. Have PV system breaker connected to bussing at opposite end of utility feed. Yes No
- H. Show REU required A/C disconnect within 10' of meter and within sight of meter. Yes No

STRUCTURAL REQUIREMENTS

- A. Roof mounted system with engineered trusses at max. 24" o.c. Yes No
- B. Provide dimensioned rack and anchor layout with attachment points at max.4' spacing, staggered, so each truss receives load evenly. Yes No
- C. Modules and racking is listed as a Class A roofing assembly if located in a high fire hazard area. Yes No