

Town of Paradise Community Development Department Building Resiliency Center 6295 Skyway Paradise, CA 95969 (530) 872-6291 x411

# Checklist for Residential Roof Mount Photovoltaic/Solar Systems Submittals

#### **DESIGN CRITERIA:**

- Seismic Zone D for 2022 CBC, D<sup>0</sup> for 2022 CRC
- Basic velocity 95 mph, 3 second gust, exposure C or provide wind speed calculations from California Registered Engineer
- 2022 editions of the California Residential Code (CRC) and the California Electrical Code (CEC) Article 690
- Climate Zone 11
- Roof Snow loads: Minimum design snow load and roof live load shall be twenty (20) pounds per square foot below elevation of 1,800 feet and thirty (30) pounds per square foot at 1,800 feet and elevations above

#### **DRAWING CRITERIA:**

- Drawing sizes shall be a minimum of 11" x 17" inches and all pages shall be the same size. Plans must be clear and legible; non-legible plans **will not be accepted**. Scale shall be <sup>1</sup>/<sub>4</sub>" inch per foot for structural and architectural 1" inch = 20 feet for site plans
- Plans must be wet-signed by the preparer on each page. Architects/Engineers must affix their seal and wet-sign (cover sheet of supporting documents to be wet-signed).
- Two complete stapled plan sets

#### PLANS PREPARED BY:

- California Registered Architect, California Registered Engineer, Owner, Licensed General Contractor, Electrical Contractor, Plumbing Contractor, Swimming Pool Contractor, Solar Contractor
- Structural Plans Included Stamped and Signed (original) by a California Registered Engineer

#### CONTENTS OF PACKET:

- Photovoltaic Checklist (2 pages complete and submit with permit) Note: all forms must be signed or initialed (as indicated) by the appropriately authorized party
- Sample One-Line Diagram for PV System including derating load calculations
- Sample Site Diagram
- Solar Panel Dead Weight Loading Calculation (complete and submit with permit)
- Verification of Wire Size for PV System Calculation form (complete and submit with permit)
- CEC Table 310.15 (B)(16) included for reference
- PV Roof Clearance drawing
- PG&E Greenbook Figure 2-19 (Minimum Meter Set Clearance Requirements)

### **Residential Photovoltaic Checklist**

Based on the 2022 California Residential Code (CRC) and the 2022 California Electrical Code (CEC) Article 690 Residential PV system shall be installed in accordance with the current adopted edition of the (CRC) and CEC Article 690 and any other applicable articles or codes adopted by the jurisdiction.

	blot plan showing:
	Lot lines
	Structure and septic system locations
	Main service panel location
	PV module array configuration shown on a roof layout (or lot if ground
	mounted system)
	% of coverage of roof area (If more than 50% a review by the fire department
	is required)
	Distance from ridge to array(s) - (minimum of 3' required by CRC) Distance from valley/ hip to array(s) - (minimum of 18" by CRC)
	PV equipment locations, Solar arrays, DC combiner boxes, conduit
	and conductor location, Inverter, AC combiner boxes, conduit
Desclar	
Root Inte	ormation (for roof mounted systems):
	Type of roof structure and slope. If rafters, provide size and spacing
	of existing roof framing members
	Existing roofing material
DV Equi	oment Manufacturer's Specifications:
	t sheets on all components including but not limited to those shown
	uding make, model, listing, size, weight, etc. <u>Highlight project specific</u> <u>n on the cut sheets.</u>
Intornation	
	PV modules UL 1703 listed (R907.5)
	PV modules UL 1703 listed (R907.5) Inverter with GFCI & AFCI protection
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	Photovoltaic Modules:
	Open-circuit voltage (Voc) from listed cut sheet
	Maximum system voltage from listed cut sheet
	Short-circuit current (Isc) from listed cut sheet
	Maximum fuse rating from listed cut sheet
	Maximum power- panel wattage from listed cut sheet
	Electrical Schematic:
	System inter-tie with utility company or stand alone
	Indicate the system KW rating
	Indicate if the system has battery backup
	Single line drawing of electrical installation which includes:
	Array
	PV power source short circuit rating
	Conductor size and type
	Conductor locations and runs
	Equipment bonding points and sizes – Per *CEC 250.122
	Inverter location
	AC & DC disconnect locations – Per *CEC 690.13
	Batteries; number, size and locations (if applicable)
	Point of connect to existing main electrical service panel
	Size and number of electrical service meters – Per *CEC 705.12 (D)(2)
	exception
	Location of required signage
	Complete attached 'verification of wire sizes' sheet
	Provide Rapid Shutdown of PV per 690.12
	Proper Signage and Labeling: Signage (see attached)
٦	Indicate system type below and show location of each required sign on one line
	diagram (see electrical):
	PV ARRAY SYSTEM W/ BATTERY BACKUP
	MULTIPLE PV ARRAY SYSTEMS
	90.17 - Switch or Circuit Breaker. The disconnecting means for ungrounded conductors shall consist of a manually e switch (es) or circuit breaker(s) complying with all of the following requirements:
	(1) Located where readily accessible
	(2) Externally operable without exposing the operator to contact with live parts
	(3) Plainly indicating whether in the open or closed position

(4) Having an interrupting rating sufficient for the nominal circuit voltage and the current that is available at the line terminals of the equipment

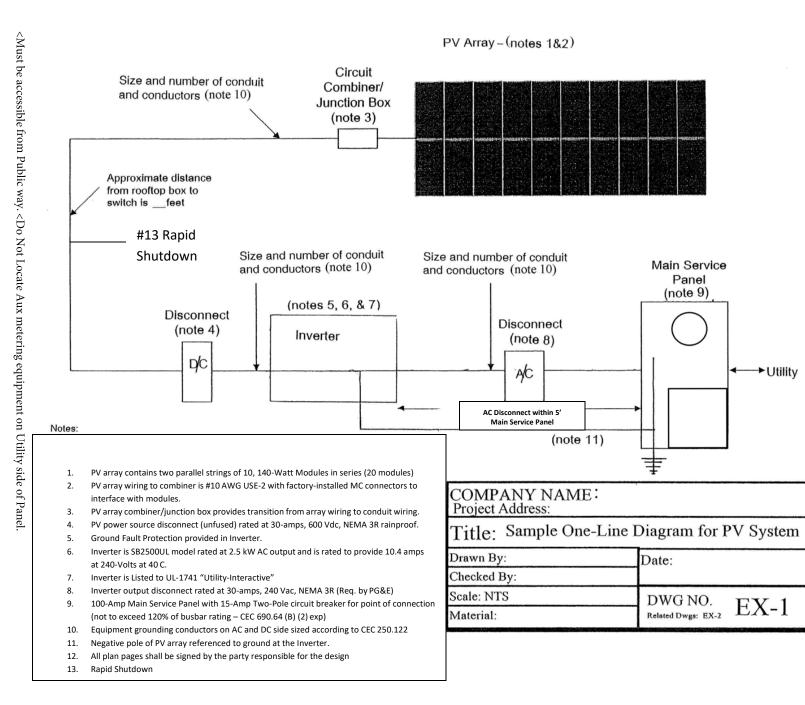
\*CEC 250.122 – Size of Equipment Grounding Conductors. Copper, aluminum, or copper-clad aluminum equipment grounding conductors of the wire type shall not be smaller than shown in Table 250.122 but shall not be required to be larger than the circuit conductors supplying the equipment.

\*CEC 690.46 - Grounding for AC/DC Systems. #6, in conduit or protected from damage

\*CEC 690.13 (E) – Grouping. The photovoltaic system disconnecting means shall be grouped with other disconnecting means for the system to comply with 690.14(C)(4). A Photovoltaic disconnecting means shall not be required at the photovoltaic module or array location.

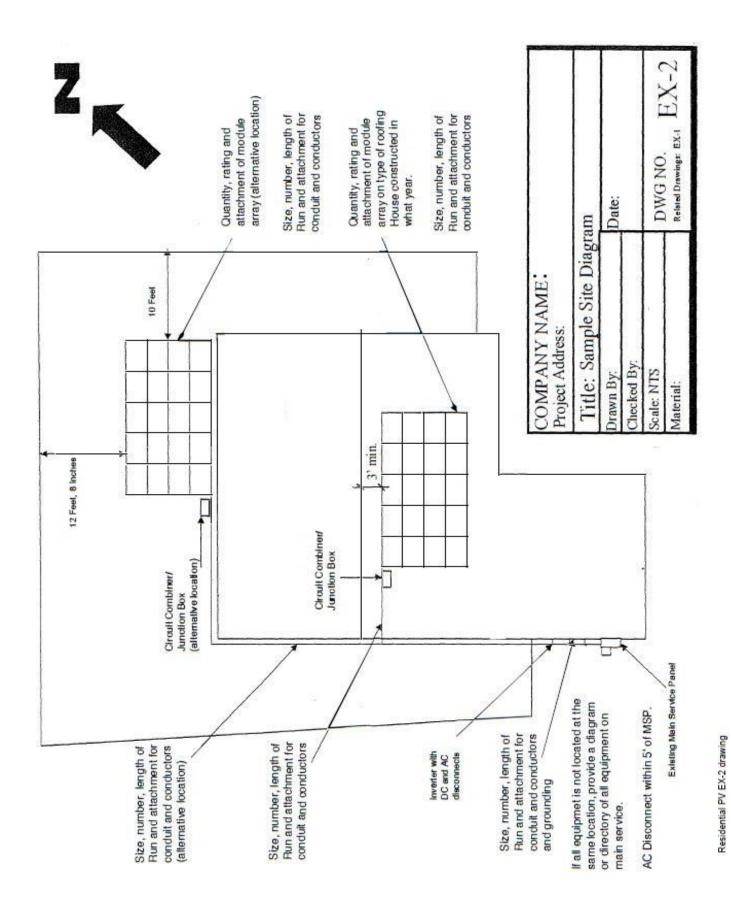
\*CEC 705.12 (D)(2) exception - Load Side. A photovoltaic power source shall be permitted to be connected to the load side of the service disconnecting means of the other source(s) at any distribution equipment on the premises, provided that (exception) the sum of the ampere ratings of the overcurrent devices shall not exceed 120% of the rating of the bus bar or conductor.

Residential PV EX-1 drawing



Photovoltaic/Solar System Submittal Checklist

Residential PV EX-1 drawing



#### SOLAR PANEL DEAD WEIGHT LOADING CALCULATION

<u>System:</u>							
Solar panel consists of	solar	module	S				
Mounting system has	_ point	ts of con	nection w	ith the ro	of		
t							
Panel Weight Calculation:							
Solar Module Weight	=		lbs.				
Mounting System Weight	=		lbs.				
Total Panel Weight = ((# of modules) ×	(modul	e wt.))+	(mounting	g system v	vt.)		
	= (	x	) +	=	: <u> </u>	lbs.	
Point Load Calculation:							
Point Load = (total panel wt. )							
					(lbc.)		
					(IDS.)		
(# of points of connection)							
Distributed Load Calculation:							
Solar Module Area = length" x width"	=	,	x	=	ft2		
144	_		144				
Total Solar Module Area = (# of modul	es) x (so	olar mod.	area)				
	_	v		=		f+2	
Inter module Specing				=			
Inter-module Spacing Total Spacing Area =			_in.				
(# spaces bet. modules) x (inter-mod spacing) x		-					ft2
					144		
Total Panel Area = (total solar modula	r area) +	· (total sp	bacing are	a)			
	=		+			ft2	
Distributed Load = (total panel wt.)							
	-						
	=			=		_lbs./ft2	
(total panel area )	-		<u> </u>				c.
The point loading and distributed l	-			-	•	t requireme	nts for
structural and	alysis. Di	istribute	d loading	- Max. 5	lbs/ft2		

Residential PV Dead Weight Loading Calculation form

#### Verification of Wire Sizes for PV System Calculation Form

ules to the invert	<u>er (D/C):</u>
le wattage off cut	sheet) x (# of modules in array)
	Watts
v) off cut sheet) x (	# of modules) x CEC Factor
_x 1.13 =	Volts
ctor x (Total syste	m wattage/ total system voltage)
=	Amps
	size from Table 310.15(B)(16) #
ter to the service	e panel (A/C):
= (Max AC Outp	ut off cut sheet)
= (110/240 V)	
= CEC Factor x (r	max inverter AC Power Output / 240)
=	Amps
	le wattage off cut 

Using CEC Table 310.15(B)(16): In temperature column copper, 75° C, find the amperage allowed, them read over the size column for the minimum wire size. **Minimum wire size from Table 310.15(B)(16) #**\_\_\_\_\_

Note: The smaller the wire size number, the larger the wire thickness.

#### **ARTICLE 310 -CONDUCTORS FOR GENERAL WIRING**

Table 310.15(B)(16) (formerly Table 310.16) Allowable Ampacities of Insulated Conductors Rated Up to and Including 2000 Volts, 60°C Through 90°C (140°F Through 194°F), Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried), Based on Ambient Temperature of 30°C (86°F)\*

Size AWG or		remperatur	e Rating of Condu	60°C	asic 310.10+(A)	L.	
kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)	(140°F)	75°C (167°F	) 90°C (194°F)	Size AWG or kcmil
	Types TW, UF	Types RHW, THHW,THW, THWN, XHHW, USE, ZW	Types TBS, SA, SIS, FEP, FEPB, MI, RHH,RHW- 2, THiil , THHW,THW- 2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2	Types TW,	UF Types RHW, THHW,TH W, THWN XIIBW, USE	IHHVV. IHVV-Z.	
				ALUN			
		COPPER			Л		
18**		—	14		—	—	_
16**		—	18			—	—
14**	15	20	25	-°	× -		_
12**	20	25	30	15	20	25	12**
10**	30	35	40	25	30	35	10**
8	40	50	55	35	40	45	8
6	55	65	75	40	50	55	6
4	70	85	95	55	65	75	4
3	85	100	115	65	75	85	3
2	95	115	130	75	90	100	2
1	110	130	145	85	100	115	1
110	125	150	170	100	120	135	1/0
2/0	145	175	195	115	135	150	2/0
3/0	165	200	225	130	155	175	3/0
410	195	230	260	150	180	205	4/0
250	215	255	290	170	205	230	250
300	240	285	320	195	230	260	300
350	260	310	350	210	250	280	350
400	280	335	380	225	270	305	400
500	320	380	430	260	310	350	500
600	350	420	475	285	340	385	600
700	385	460	520	315	375	425	700
750	400	475	535	320	385	435	750
800	410	490	555	330	395	445	800
900	435	520	585	355	425	480	900
1000	455	545	615	375	445	500	1000
1250	495	590	665	405	485	545	1250
1500	525	625	705	435	520	585	1500
1750	545	650	735	455	545	615	1750

\*Refer to 310.15(B)(2) for the ampacity correction factors where the ambient temperature is other than 30°C (86°F).

\*\*Refer to 240.4(D) for conductor overcurrent protection limitations

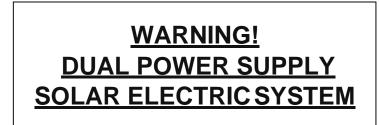
2022 California Electrical Code 70-161

Residential PV Table 310.15(8)(16)

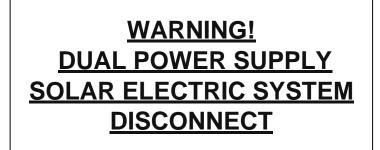
# REQUIRED LABELS FOR RESIDENTIAL SOLAR ELECTRIC (PV) SYSTEMS

(SEE DRAWING PV-1)

- LABELS SHALL BE MADE OF RED PLASTIC MATERIAL WITH ENGRAVED WHITE LETTERS.
- LETTERS SHALL BE A MINIMUM 3/8" IN SIZE.
- THE LABELS SHALL BE PERMANENTLY ATTACHED TO THE APPROPRIATE PANEL.
- AC & DC CONDUIT, RACEWAY, ENCLOSURES, CABLE ASSEMBLIES AND JUNCTION BOXES SHALL BE RED BACKGROUND MATERIAL WITH WHITE LETTERING MADE OF DURABLE ADHESIVE, REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT PER UL 969; TO ALERT FIRE SERVICE TO AVOID CUTTING THEM OFF.



THIS TAG TO BE ATTACHED TO METER PANEL

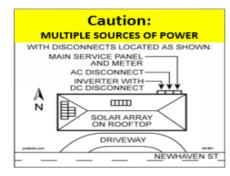


THIS TAG TO BE ATTACHED TO PV DISCONNECT DEVICE



THIS TAG TO BE ATTACHED TO AC AND DC CIRCUIT EQUIPMENT

THIS TAG TO BE ATTACHED TO EXTERIOR SERVICE PANEL

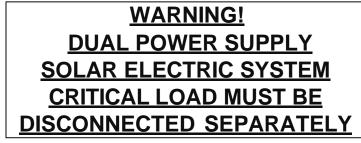


DRAWING PVT-I

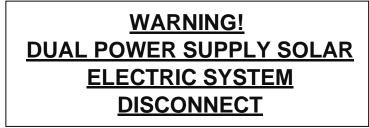
## REQUIRED LABELS FOR RESIDENTIAL SOLAR ELECTRIC (PV) SYSTEMS W/ BATTERY BACK-UP

(SEE DRAWING PV-2)

- LABELS SHALL BE MADE OF RED PLASTIC MATERIAL WITH ENGRAVED WHITE LETTERS.
- LETTERS SHALL BE A MINIMUM 3/8" IN SIZE.
- THE LABELS SHALL BE PERMANENTLY ATTACHED TO THE APPROPRIATE PANEL.
- AC & DC CONDUIT, RACEWAY, ENCLOSURES, CABLE ASSEMBLIES AND JUNCTION BOXES SHALL BE RED BACKGROUND MATERIAL WITH WHITE LETTERING MADE OF DURABLE ADHESIVE, REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT PER UL 969; TO ALERT FIRE SERVICE TO AVOID CUTTING THEM OFF.



THIS TAG TO BE ATTACHED TO METER PANEL



THIS TAG TO BE ATTACHED TO PV DISCONNECT DEVICE

### CAUTION: SOLAR ELECTRIC CIRCUIT

THIS TAG TO BE ATTACHED TO AC AND DC CIRCUIT EQUIPMENT

### CRITICAL LOAD DISCONNECT

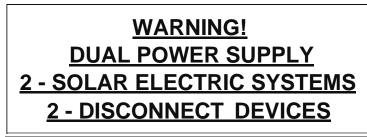
THIS TAG TO BE ATTACHED TO BATTERY BANK DISCONNECT

DRAWING PVT-2

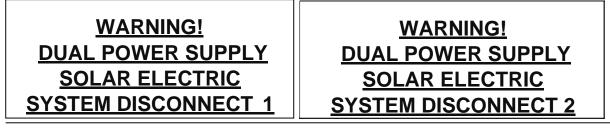
## REQUIRED LABELS FOR RESIDENTIAL MULTI - SOLAR ELECTRIC (PV) SYSTEMS

#### (SEE DRAWING PV-3)

- LABELS SHALL BE MADE OF RED PLASTIC MATERIAL WITH ENGRAVED WHITE LETTERS.
- LETTERS SHALL BE A MINIMUM 3/8" IN SIZE.
- THE LABELS SHALL BE PERMANENTLY ATTACHED TO THE APPROPRIATE PANEL.
- AC & DC CONDUIT, RACEWAY, ENCLOSURES, CABLE ASSEMBLIES AND JUNCTION BOXES SHALL BE RED BACKGROUND MATERIAL WITH WHITE LETTERING MADE OF DURABLE ADHESIVE, REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT PER UL 969; TO ALERT FIRE SERVICE TO AVOID CUTTING THEM OFF.



THIS TAG TO BE ATTACHED TO METER PANEL

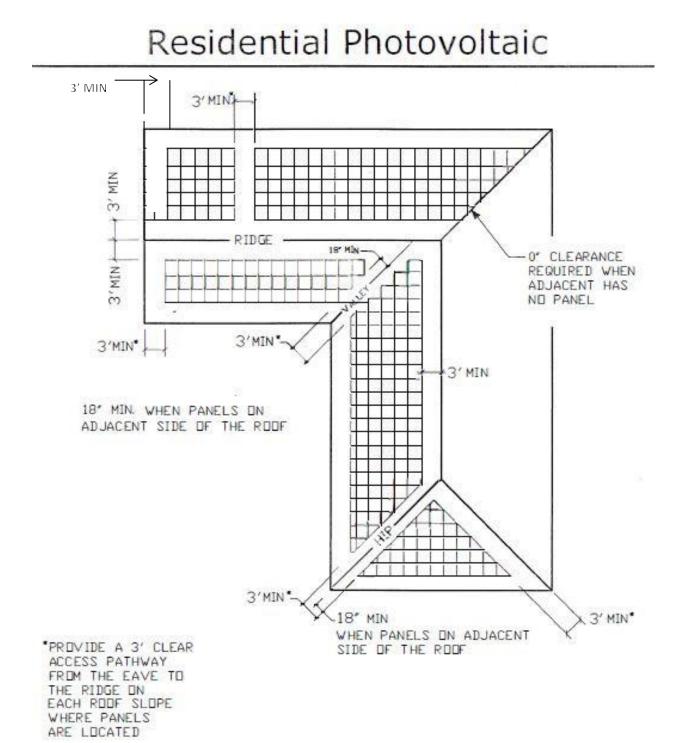


THIS TAG TO BE ATTACHED TO PV DISCONNECT DEVICES



THIS TAG TO BE ATTACHED TO AC AND DC CIRCUIT EQUIPMENT

**DRAWING PVT-3** 



#### Minimum Meter Set Clearance Requirements

• Figure 2-19, "Electric and Gas Meter Set Separation Dimensions and Clearance," below; Figure 2-20, "Gas Meter Set Clearance From Building Openings," on Page 2-32; and figure 2-21, "Gas Regulator Set Clearance Requirement From Sources of Ignition," on Page 2-33, all represent various metering facilities' clearance requirements. If applicants install enclosures on their premises, the enclosures must meet the specifications provided in these illustrations.

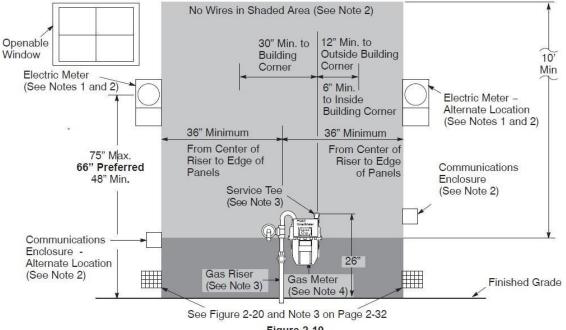


Figure 2-19 Electric and Gas Meter Set Separation Dimensions and Clearances

Notes in Reference to Figure 2-19.

- 1. Electric meter panel locations are subject to utility approval and must comply with the applicable code requirements. PG&E does **not** have specific requirements for the distance from the electric panel to the outside building corner. See Section 5, "Electric Metering: General," for properly locating the electric meters. See Subsection 5.4.4, "Working Space," on Page 5-11, for electric meter working space.
- Applicants must not install any electrical devices or equipment, including wires, cables, metering enclosures, telecommunication enclosures, bond wires, clamps, or ground rods within the shaded area around the gas meter. The 36-inch distance can be reduced to 18 inches for electrical devices or equipment certified for NEC Class I, Division 2 locations.
- 3. Place the gas service riser 6 inches to 9 inches from the finished wall. The completed customer houseline at the service delivery point must extend a minimum of 4 to 6 inches from the finished wall where the meter is to be set, and must be 26 inches above the finished grade. See Figure 2-14 on Page 2-26, Figure 2-15 on Page 2-27, and Subsection 2.5 on Page 2-42.
- 4. The minimum dimensions and clearances in figure 2-19 are good for gas meters up to the 1,000 class. See Figure 2-15 on Pages 2-26 and 2-27 for illustrations of clear and level working space in front of the gas meter.