



Building Department

SOLAR PV STANDARD PLAN

SIMPLIFIED CENTRAL / STRING INVERTER SYSTEMS

390 Towne Centre Dr, Lathrop, CA 95330
Phone: (209) 941-7270

SOLAR PV STANDARD PLAN SIMPLIFIED CENTRAL / STRING INVERTER SYSTEMS FOR ONE- / TWO- FAMILY DWELLINGS

Use this plan **ONLY** for utility-interactive central/string inverter systems not exceeding a system AC inverter output rating of 10kW on the roof of a one- or two- family dwelling, or accessory structure. The photovoltaic system must interconnect to the load side of a single-phase AC service panel of nominal 120/240Vac with a bus bar rating of 225A or less. This plan is not intended for bipolar systems, hybrid systems, or systems that utilize storage batteries, charge controllers, trackers, more than two inverters, or more than one DC combiner (non-inverter integrated) per inverter. Systems must comply with current California Building Standards Codes (CBC) and local amendments of the authority having jurisdiction (AHJ). Other Articles of the California Electrical Code (CEC) shall apply as specified in 690.3.

Manufacturer's Specification Sheets must be provided for proposed inverter, modules, combiner/junction boxes, and racking systems. Installation instructions for bonding and grounding equipment shall be provided, and local AHJs may require additional details. Listed and labeled equipment shall be installed and used in accordance with any instructions included in the listing or labeling (CEC 110.3). Equipment intended for use with PV system shall be identified and listed for the application. (CEC 690.4d).

Project Address: _____ **Permit #:** _____
Contractor/Engineer Name: _____ **License #:** _____ **Class:** _____
Phone #: _____ **Email:** _____

Signature

Date

Total # of Inverters Installed: _____

(If more than one inverter, complete and attach the "Supplemental Calculation sheets" and the "Load Center Calculations" if a new load center is to be used)

Inverter 1 AC Output Power Rating: _____ Watts **Inverter 2 AC Output Power Rating** (if applicable): _____ Watts

Combined Inverter Output Power Rating: _____ ≤ 10,000 Watts

Ambient Temperature Adjustment Factors:

[Select the box for the expected lowest ambient temperature (T_L) with the corresponding Ambient Temperature Correction Factor (C_F)]

- | |
|--|
| 1. <input type="checkbox"/> If T_L is greater than or equal to -5°C , $C_F= 1.12$
<input type="checkbox"/> If T_L is between -6°C to -10°C , $C_F= 1.14$
Average ambient high temperate (T_H) = 47°C
Note: For a lower T_L or a higher T_H , this plan is not applicable. |
|--|

DC Information:

Module Manufacturer: _____ Model: _____

- | | |
|---|--|
| 2. Module V_{OC} (From Module Nameplate): _____ Volts | 3. Module I_{SC} (from module nameplate): _____ Amps |
|---|--|



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Is Module I_{sc} less than 13 Amps? Yes No If No, this plan is not applicable.

4. Module DC output power under Standard Test Conditions (STC) = _____ Watts (STC)

5. DC Module Layout

Identify each source circuit (string) for inverter 1 shown on the roof plan with a Tag (e.g. A, B, C...)	Number of modules per source circuit for Inverter 1

Total number of source circuits for inverter 1:

6. Are DC/DC Converters used? Yes No If NO, skip to Step 7. If Yes, enter info below.

DC/DC Converter Model #: _____	DC/DC Converter Max DC Input Voltage: _____ Volts
Max DC Output Current: _____ Amps	Max DC Output Voltage: _____ Volts
Max # of DC/DC Converters in an Input Circuit: _____	DC/DC Converter Max DC Input Power: _____ Watts

7. Max System DC Voltage

Only use for systems without DC/DC converters.

A. Module V_{oc} (Step 2) = _____ x # of modules in series (Step 5) _____ x C_F (Step 1) _____ = _____ V

Table 1. Maximum Number of PV Modules in Series Based on Module Rated V_{oc} for 600 Vdc Rated Equipment (CEC 690.7)													
Max Rated Module V_{oc} if $C_F = 1.12$ (Volts)	29.76	31.51	33.48	35.71	38.27	41.21	44.64	48.70	53.57	59.52	66.96	76.53	89.29
Max Rated Module V_{oc} if $C_F = 1.14$ (Volts)	29.24	30.96	32.89	35.09	37.59	40.49	43.86	47.85	52.63	58.48	65.79	75.19	87.72
Max # of Modules for 600 Vdc	18	17	16	15	14	13	12	11	10	9	8	7	6

Only use for systems with DC/DC converters. The value calculated below must be less than DC/DC converter max DC input voltage (Step 6)

B. Module V_{oc} (Step 2) = _____ x # of modules per converter (Step 6) _____ x C_F (Step 1) _____ = _____ V

Table 2. Largest Module V_{oc} for Single-Module DC/DC Converter Configurations (with 80V AFCI Cap) (CEC 690.7 & 690.11)																
Max Rated Module V_{oc} (*1.12) (Volts)	30.4	33.0	35.7	38.4	41.1	43.8	46.4	49.1	51.8	54.5	57.1	59.8	62.5	65.2	67.9	70.5
Max Rated Module V_{oc} (*1.14) (Volts)	29.8	32.5	35.1	37.7	40.4	43.0	45.6	48.2	50.9	53.5	56.1	58.8	61.4	64.0	66.7	69.3
DC/DC Converter Max DC Input (STEP 6) (Volts)	34	37	40	43	46	49	52	55	58	61	64	67	70	73	76	79

8. Maximum System DC Voltage from DC/DC Converters to Inverter – Only required if Yes in Step 6
 Maximum System DC Voltage = _____ Volts



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9. Sizing Source Circuit Conductors

Source Circuit Conductor Size = Min. #10 AWG copper conductor, 90°C wet (USE-2, PV Wire, XHHW-2, THWN-2, RHW-2)

For up to 8 current-carrying conductors in roof-mounted conduit exposed to sunlight at least ½" from the roof covering (CEC 310)

Note: For over 8 current-carrying conductors in the conduit or mounting height of lower than ½" from the roof, this plan is not applicable.

10. Inverter DC Disconnect

Does the inverter have an integrated DC disconnect? Yes No If Yes, proceed to Step 14
If no, the external DC disconnect to be installed is rated for _____ Amps (DC) and _____ Volts (DC)

11. Inverter Information

Manufacturer: _____ Model: _____

Max Continuous AC Output Current Rating: _____ Amps

Max Short Circuit Current per Input: _____ Amps

Does PV Module I_{sc} (Step 3) exceed value above? Yes No If No, this plan is not applicable.

Integrated DC Arc-Fault Circuit Protection? Yes No If No, this plan is not applicable.

Grounded or Underground System? Grounded Underground

AC Information:

12. Sizing Inverter Output Circuit Conductors and OCPD

Inverter Output OCPD rating = _____ Amps (Table 3)

Inverter Output Circuit Conductor Size = _____ AWG (Table 3)

Table 3. Minimum Inverter Output OCPD and Circuit Conductor Size

Inverter Continuous Output Current Rating (Amps) (Step 11)	12	16	20	24	28	32	36	40	48
Minimum OCPD Size (Amps)	15	20	25	30	35	40	45	50	60
Minimum Conductor Size (AWG, 75°C, Copper)	14	12	10	10	8	8	6	6	6

13. Point of Connection to Utility – Inverter(s) must be connected to either load or supply side of service disconnecting means. Only one of the sub-sections below and either Single Line Diagram #1 or Single Line Diagram #2 should be filled out.

Only use this section for connections on the load side of the service disconnecting means.

Is the PV OCPD positioned at the opposite end from input feeder location or main OCPD location?

Yes No If No, then use 100% row in Table 4

Load side connections (Per 705.12(D)(2)(3)(c)):

(Combined inverter output OCPD size + Main OCPD size) ≤ [bus bar size x (100% or 120%)]



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Table 4. Maximum Combined Supply OCPDs Based on Bus Bar Rating (Amps) per CEC 705.12(D)(2)(3)(b)

Bus Bar Rating	100	125	125	200	200	200	225	225	225
Main OCPD	100	100	125	150	175	200	175	200	225
Max Combined PV System OCPD(s) at 120% of Bus Bar Rating	20	50	25	60*	60*	40	60*	60*	45
Max Combined PV System OCPD(s) At 100% of Bus Bar Rating	0	25	0	50	25	0	50	25	0

*This value has been lowered to 60 A from the calculated value to reflect 10 kW AC size maximum.

Reduction of the main breaker is not permitted with this plan. Interconnection to center-fed panel boards may be permitted per California Building Standards Commission - Informational Bulletin.

Only use this section for connections on the supply side of the service disconnecting means (between the utility meter and the service disconnecting means).

Select one:

- Utility- and AHJ-approved meter socket adapter.

Adapter Name / Model: _____

- Service equipment listed for the purpose of PV interconnection.

Description / Model Number(s): _____

14. Rapid Shutdown

The rapid shutdown initiation device shall be labeled according to CEC 690.56(C), and its location shall be shown on the site plan drawing. The rapid shutdown initiation device may be the inverter output or input circuits' disconnecting means, the service main disconnect, or a separate device as approved by the AHJ. The disconnecting means shall be identified for the purpose, suitable for their environment, and listed as a disconnecting means. A single rapid shutdown initiation device shall operate all disconnecting means necessary to control conductors in compliance with CEC 690.12.

Note: Check with the AHJ regarding approval where field verification of reduction of voltage within the time required by CEC 690.12 is performed.

Rapid shutdown shall be provided as required by CEC 690.12 with one of the following methods (Select One):

The inverter(s) is within 10 feet of the array, and the location of the inverter is such that uncontrolled PV system conductors are no greater than 5 feet of length within the building. A remotely-controlled AC disconnecting means is required immediately adjacent to or as close as practicable to the inverters and located within 10 feet of the array.

The inverter(s) is within 10 feet of the array, and the location of the inverter is such that uncontrolled PV system conductors are no greater than 5 feet of length within the building. Reduction of the voltage for the inverter output within the time required by CEC 690.12 shall be verified in the field, or the inverter output is listed to UL 1741 with rapid shutdown capability.



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Remotely-controlled DC disconnecting means are located within 10 feet of the PV array and DC input of the inverter(s), and the locations of the disconnecting means are such that uncontrolled PV system conductors are no greater than 5 feet of length within the building. Reduction of the voltage for the inverter output within the time required by CEC 690.12 shall be verified in the field, or the inverter output is listed to UL 1741 with rapid shutdown capability.

Remotely-controlled DC disconnecting means is located within 10 feet of the array at the DC input of inverter(s) connected to a module level DC-DC converter circuit where the DC-DC converter circuit meets the requirements for controlled conductors when disconnected from the inverter. Reduction of the voltage for the DC-DC converter output and the inverter output within the time required by CEC 690.12 shall be verified in the field, or the DC-DC converter output and the inverter output are listed to UL 1741 with rapid shutdown capability.

A UL 1741-listed and identified inverter(s) with input and output rapid shutdown capability supplying module level DC-DC converter circuit where the DC-DC converter circuit meets the requirements for controlled conductors when disconnected from the inverter.

A UL 1741-listed rapid shutdown system:

Manufacturer: _____

Testing Agency Name: _____

System Model Number: _____

System Components: _____

15. Grounding and Bonding of Modules and Racking System (Select One):

Racking system listed to UL 2703 using modules identified in the listing.

Other method subject to AHJ approval.

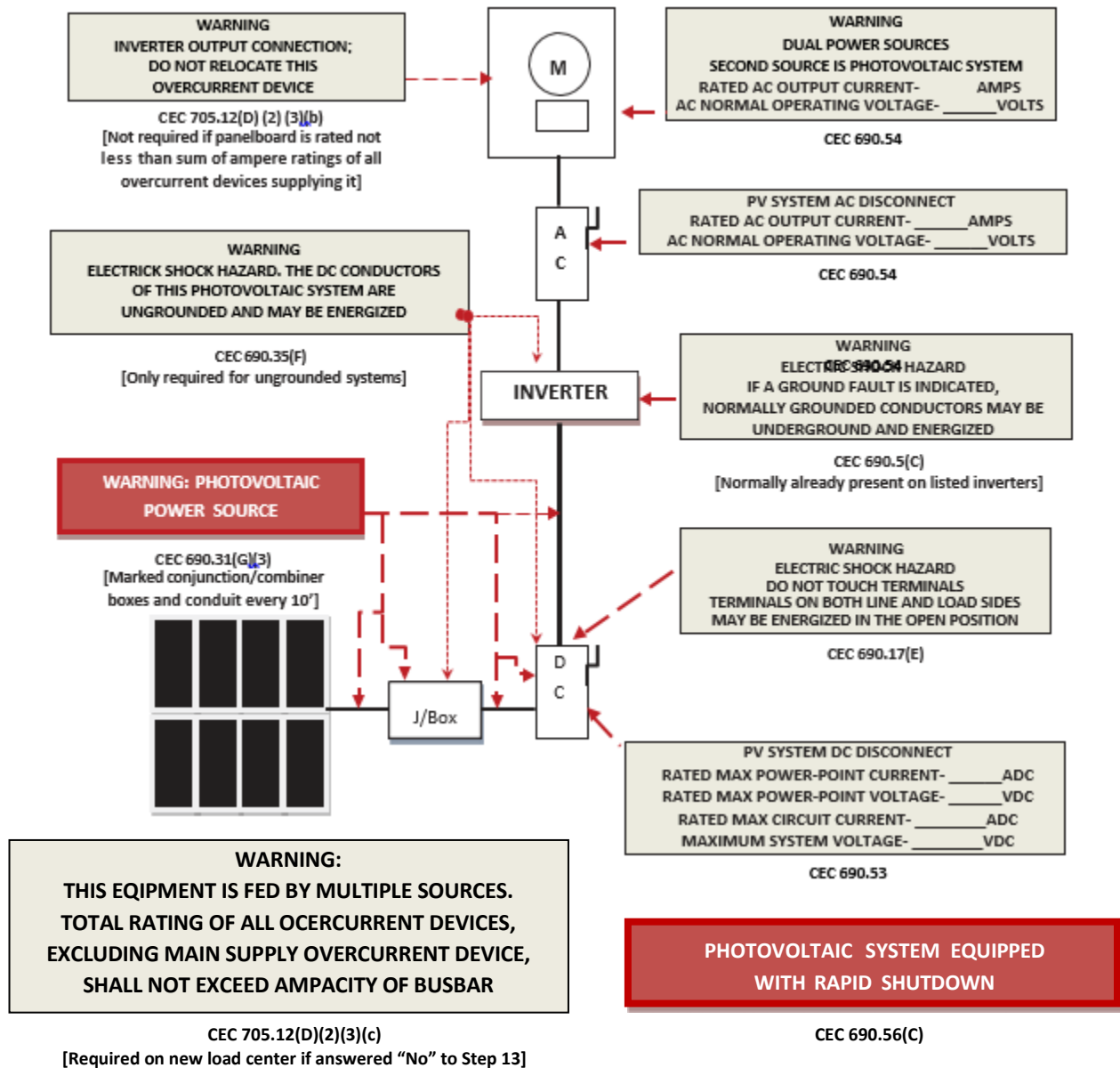


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MARKINGS

CEC Articles 690 and 705 and CA Residential Code Section R324 require the following labels or markings be installed at these components of the photovoltaic system:



Informational Note: ANSI Z535.4-2011 provides guidelines for the design of safety signs and labels for application to products. A phenolic plaque with contrasting colors between the text and background would meet the intent of the code per permanency. No type size is specified, but 20 point (3/8") should be considered the minimum.

CEC 705.12 requires a permanent plaque or directory denoting all electric power sources on or in the premises or rapid-fire shutdown equipment.



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▲ TAG	DESCRIPTION
1	SOLAR PV MODULE / STRING
2	DC/DC CONVERTERS INSTALLED? YES / NO (IF YES, STEPS 6 & 8 REQUIRED)
3	SOURCE CIRCUIT JUNCTION BOX INSTALLED? YES / NO
4	SEPARATE DC DISCONNECT INSTALLED? YES / NO
5	INTERNAL INVERTER DC DISCONNECT: YES / NO
6	CENTRAL INVERTER
7	LOAD CENTER INSTALLED? YES / NO
8	PV PRODUCTION METER INSTALLED? YES / NO
9	*SEPARATE AC DISCONNECT INSTALLED? YES / NO
10	CONNECT TO INVERTER #2 (USE LINE DIAGRAM 2)

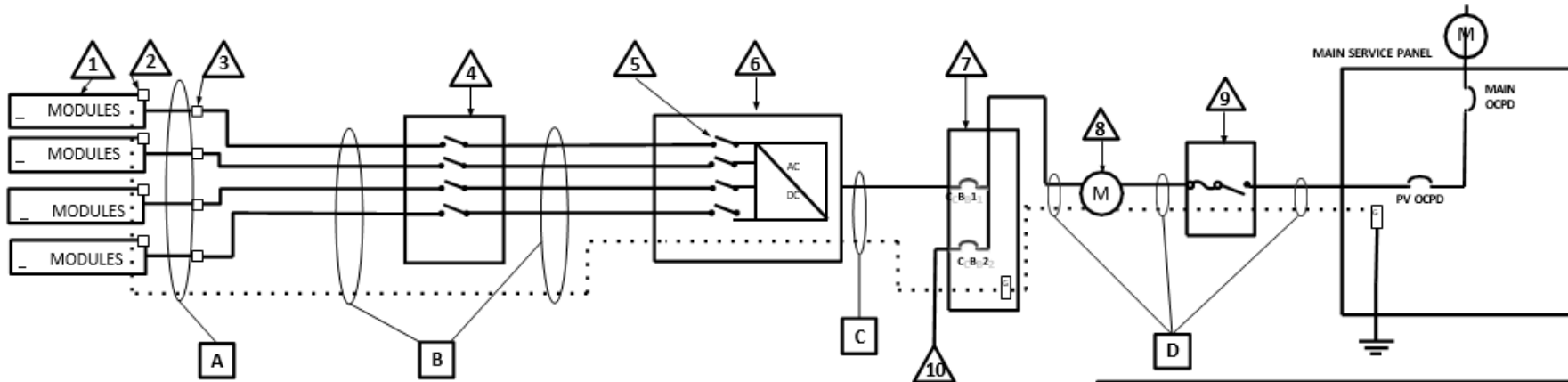
* Consult with your local AHJ and /or Utility

SINGLE-LINE DIAGRAM #1 – NO STRINGS COMBINED PRIOR TO INVERTER

CHECK A BOX FOR WHETHER SYSTEM IS GROUNDED OR UNGROUNDED: GROUNDED (INCLUDE GEC) UNGROUNDED

FOR UNGROUNDED SYSTEMS:

- DC OCPD MUST DISCONNECT BOTH CONDUCTORS OF EACH SOURCE CIRCUIT
- UNGROUNDED CONDUCTORS MUST BE IDENTIFIED PER 210.5(C). WHITE-FINISHED CONDUCTORS ARE NOT PERMITTED.

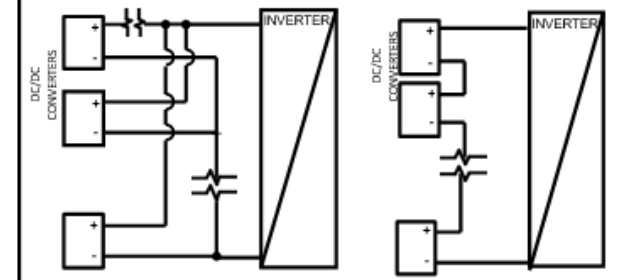


CONDUCTOR/CONDUIT SCHEDULE

□ TAG	DESCRIPTION AND CONDUCTOR TYPE	CONDUCTOR SIZE	NUMBER OF CONDUCTORS	CONDUIT/CABLE TYPE	CONDUIT SIZE
A	USE-2 <input type="checkbox"/> OR PV-WIRE <input type="checkbox"/>				
	EGC/GEC:				
B					
	EGC/GEC:				
C					
	EGC/GEC:				
D					
	EGC/GEC:				

ENTER "N/A" WHERE SUITABLE FOR WHEN NOT USING CONDUIT OR CABLE AS PERMITTED BY CODE

IF DC/DC CONVERTERS ARE USED, CHECK THE BOX BELOW THE CORRESPONDING CONFIGURATION



PARALLEL DC/DC CONVERTERS ON ONE SOURCE CIRCUIT (FIXED UNIT VOLTAGE DC/DC CONVERTERS)

DC/DC CONVERTERS ARE ALL RUN IN SERIES (FIXED SOURCE CIRCUIT VOLTAGE DC/DC CONVERTERS)



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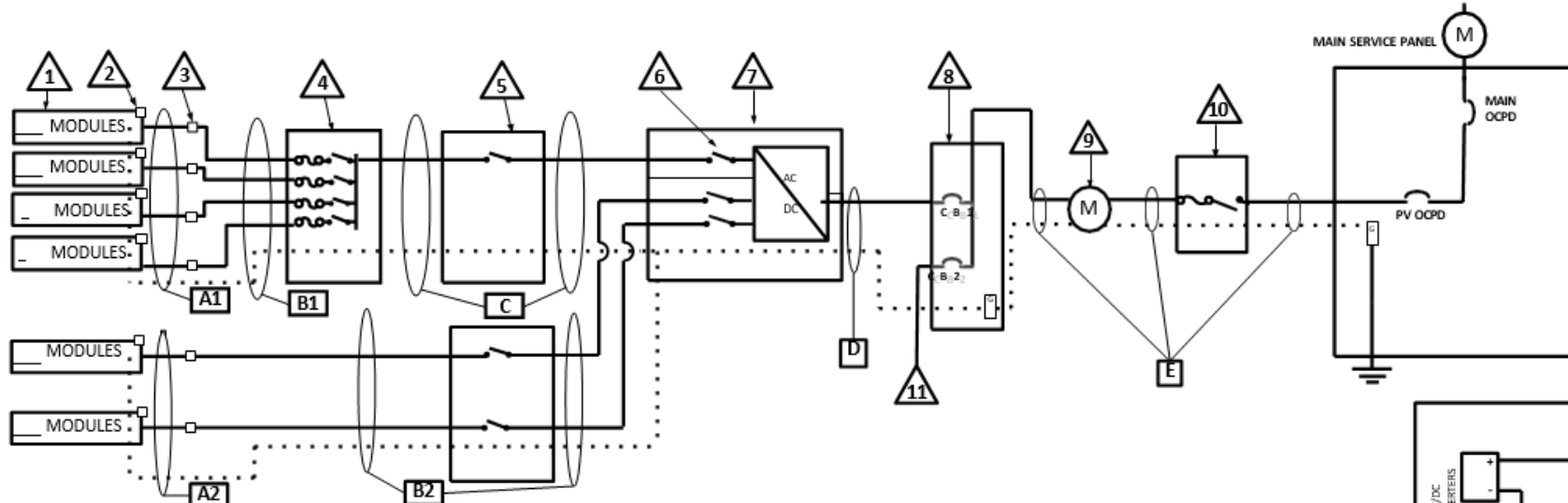
▲ TAG	DESCRIPTION
1	SOLAR PV MODULE / STRING
2	DC/DC CONVERTERS INSTALLED? YES / NO (IF YES, STEPS 6 & 8 REQUIRED)
3	SOURCE CIRCUIT JUNCTION BOX INSTALLED? YES / NO
4	COMBINER BOX (STEPS 11 & 12 REQUIRED)
5	SEPARATE DC DISCONNECT INSTALLED? YES / NO
6	INTERNAL INVERTER DC DISCONNECT? YES / NO
7	CENTRAL INVERTER
8	LOAD CENTER INSTALLED? YES / NO
9	PV PRODUCTION METER INSTALLED? YES / NO
10	*SEPARATE AC DISCONNECT INSTALLED? YES / NO
11	CONNECT TO INVERTER #2 (USE LINE DIAGRAM 4)

* Consult with your local AHJ and /or Utility

SINGLE-LINE DIAGRAM #2 – COMBINING STRINGS PRIOR TO INVERTER

CHECK A BOX FOR WHETHER SYSTEM IS GROUNDED OR UNGROUNDED: GROUNDED (INCLUDE GEC) UNGROUNDED

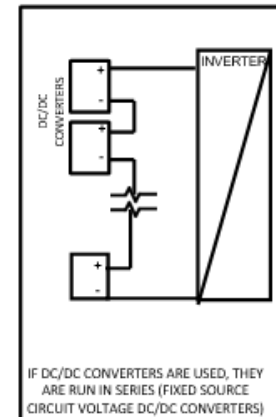
FOR UNGROUNDED SYSTEMS:
 - DC OCPD MUST DISCONNECT BOTH CONDUCTORS OF EACH SOURCE CIRCUIT
 - UNGROUNDED CONDUCTORS MUST BE IDENTIFIED PER 210.5(C). WHITE-FINISHED CONDUCTORS ARE NOT PERMITTED.



COMBINER CONDUCTOR/CONDUIT SCHEDULE					
☐ TAG	DESCRIPTION AND CONDUCTOR TYPE	CONDUCTOR SIZE	NUMBER OF CONDUCTORS	CONDUIT/CABLE TYPE	CONDUIT SIZE
A1	USE-2 ☐ OR PV-WIRE ☐ EGC/GEC:				
B1	EGC/GEC:				
C	EGC/GEC:				
D	EGC/GEC:				
E	EGC/GEC:				

NON-COMBINED STRINGS CONDUCTOR/CONDUIT SCHEDULE (IF APPLICABLE)					
☐ TAG	DESCRIPTION AND CONDUCTOR TYPE	CONDUCTOR SIZE	NUMBER OF CONDUCTORS	CONDUIT/CABLE TYPE	CONDUIT SIZE
A2	USE-2 ☐ OR PV-WIRE ☐ EGC/GEC:				
B2	EGC/GEC:				

ENTER "N/A" WHERE SUITABLE FOR WHEN NOT USING CONDUIT OR CABLE AS PERMITTED BY CODE





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SUPPLEMENTAL CALCULATION SHEETS FOR INVERTER #2
(ONLY INCLUDE IF SECOND INVERTER IS USED)

DC Information:

Module Manufacturer: _____		Model: _____	
S1. Module V_{oc} (From Module Nameplate): _____ Volts		S2. Module I_{sc} (from module nameplate): _____ Amps	
Is Module I_{sc} less than 13 Amps? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, this plan is not applicable.			
S3. Module DC output power under Standard Test Conditions (STC) = _____ Watts (STC)			
S4. DC Module Layout			
Identify each source circuit (string) for inverter 1 shown on the roof plan with a Tag (e.g. A, B, C...)		Number of modules per source circuit for Inverter 1	
Total number of source circuits for inverter 1: _____			
S5. Are DC/DC Converters used? <input type="checkbox"/> Yes <input type="checkbox"/> No If NO, skip to Step 7. If Yes, enter info below.			
DC/DC Converter Model #: _____		DC/DC Converter Max DC Input Voltage: _____ Volts	
Max DC Output Current: _____ Amps		Max DC Output Voltage: _____ Volts	
Max # of DC/DC Converters in an Input Circuit: _____		DC/DC Converter Max DC Input Power: _____ Watts	



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S6. Max System DC Voltage

Only use for systems without DC/DC converters.

A. Module V_{oc} (Step 2) = _____ x # of modules in series (Step 5) _____ x C_F (Step 1) _____ = _____ V

Max Rated Module V_{oc} if $C_F = 1.12$ (Volts)	29.76	31.51	33.48	35.71	38.27	41.21	44.64	48.70	53.57	59.52	66.96	76.53	89.29
Max Rated Module V_{oc} if $C_F = 1.14$ (Volts)	29.24	30.96	32.89	35.09	37.59	40.49	43.86	47.85	52.63	58.48	65.79	75.19	87.72
Max # of Modules for 600 Vdc	18	17	16	15	14	13	12	11	10	9	8	7	6

Only use for systems with DC/DC converters. The value calculated below must be less than DC/DC converter max DC input voltage (Step 6)

B. Module V_{oc} (Step 2) = _____ x # of modules per converter (Step 6) _____ x C_F (Step 1) _____ = _____ V

Max Rated Module VOC (*1.12) (Volts)	30.4	33.0	35.7	38.4	41.1	43.8	46.4	49.1	51.8	54.5	57.1	59.8	62.5	65.2	67.9	70.5
Max Rated Module VOC (*1.14) (Volts)	29.8	32.5	35.1	37.7	40.4	43.0	45.6	48.2	50.9	53.5	56.1	58.8	61.4	64.0	66.7	69.3
DC/DC Converter Max DC Input (STEP 6) (Volts)	34	37	40	43	46	49	52	55	58	61	64	67	70	73	76	79

S7. Maximum System DC Voltage from DC/DC Converters to Inverter – Only required if Yes in Step 6

Maximum System DC Voltage = _____ Volts

S8. Sizing Source Circuit Conductors

Source Circuit Conductor Size = Min. #10 AWG copper conductor, 90°C wet (USE-2, PV Wire, XHHW-2, THWN-2, RHW-2)

For up to 8 current-carrying conductors in roof-mounted conduit exposed to sunlight at least ½" from the roof covering (CEC 310)

Note: For over 8 current-carrying conductors in the conduit or mounting height of lower than ½" from the roof, this plan is not applicable.

S9. Inverter DC Disconnect

Does the inverter have an integrated DC disconnect? Yes No If Yes, proceed to Step 14

If no, the external DC disconnect to be installed is rated for _____ Amps (DC) and _____ Volts (DC)



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S10. Inverter Information

Manufacturer: _____ Model: _____
 Max Continuous AC Output Current Rating: _____ Amps
 Max Short Circuit Current per Input: _____ Amps
 Does PV Module I_{sc} (Step 3) exceed value above? Yes No If No, this plan is not applicable.
 Integrated DC Arc-Fault Circuit Protection? Yes No If No, this plan is not applicable.
 Grounded or Underground System? Grounded Underground

AC Information:

S11. Sizing Inverter Output Circuit Conductors and OCPD

Inverter Output OCPD rating = _____ Amps (Table 3)
 Inverter Output Circuit Conductor Size = _____ AWG (Table 3)

Table 3. Minimum Inverter Output OCPD and Circuit Conductor Size

Inverter Continuous Output Current Rating (Amps) (Step 11)	12	16	20	24	28	32	36	40	48
Minimum OCPD Size (Amps)	15	20	25	30	35	40	45	50	60
Minimum Conductor Size (AWG, 75°C, Copper)	14	12	10	10	8	8	6	6	6



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SUPPLEMENTAL CALCULATION SHEETS FOR INVERTER #2
(ONLY INCLUDE IF SECOND INVERTER IS USED)

S12. Load Center Output

Calculate the sum of the maximum AC outputs from each inverter.

Inverter #1 Max Continuous AC Output Current Rating (Step 11) _____ x 1.25 = _____ Amps

Inverter #2 Max Continuous AC Output Current Rating (Step S10) _____ x 1.25 = _____ Amps

Total inverter currents connected to load center (sum of above) _____ = _____ Amps

Conductor Size: _____ AWG

Overcurrent Protection Device: _____ Amps

Load Center Bus Bar Rating: _____ Amps

Can the load center accept more than two breakers? Yes No

If Yes, the sum of 125% of the inverter output circuit currents and the rating of the overcurrent device protecting the bus bar shall not exceed 120% of the ampacity of the bus bar.

If No, the sum of ampere rating of the two PV overcurrent devices shall not exceed the rating of the busbar.



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△ TAG	DESCRIPTION
1	SOLAR PV MODULE / STRING
2	DC/DC CONVERTERS INSTALLED? YES / NO (IF YES, STEPS 6 & 8 REQUIRED)
3	SOURCE CIRCUIT JUNCTION BOX INSTALLED?: YES / NO
4	SEPARATE DC DISCONNECT INSTALLED?: YES / NO
5	INTERNAL INVERTER DC DISCONNECT: YES / NO
6	CENTRAL INVERTER
7	*SEPARATE AC DISCONNECT INSTALLED?: YES / NO
8	TO LOAD CENTER ON LINE DIAGRAM 1

* Consult with your local AHJ and /or Utility

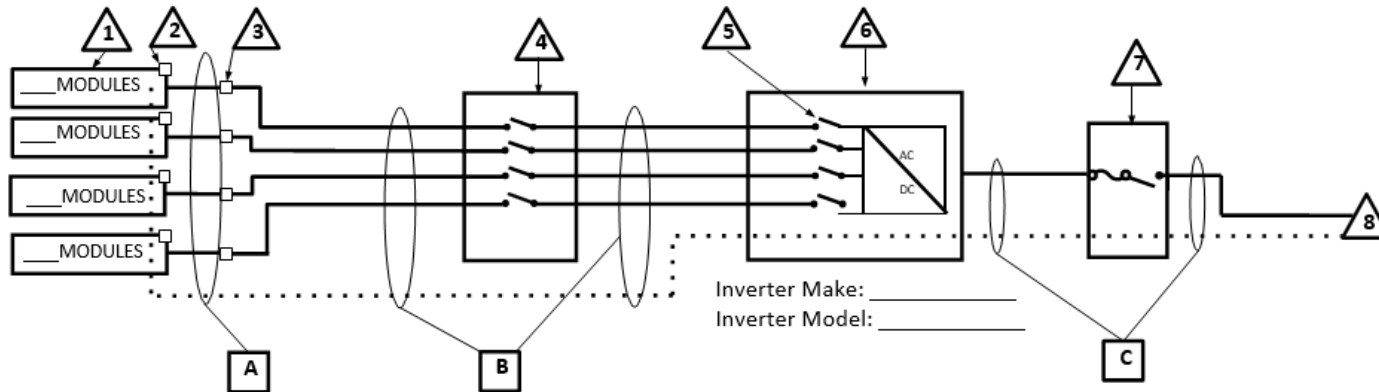
SINGLE-LINE DIAGRAM #3 – ADDITIONAL INVERTER

INVERTER # 2

CHECK A BOX FOR WHETHER SYSTEM IS GROUNDED OR UNGROUNDED: GROUNDED (INCLUDE GEC) UNGROUNDED
 REFER TO STEP 14 FOR RAPID SHUTDOWN DETAILS

FOR UNGROUNDED SYSTEMS:

- DC OCPD MUST DISCONNECT BOTH CONDUCTORS OF EACH SOURCE CIRCUIT
- UNGROUNDED CONDUCTORS MUST BE IDENTIFIED PER 210.5(C). WHITE-FINISHED CONDUCTORS ARE NOT PERMITTED.



Inverter Make: _____
 Inverter Model: _____

CONDUCTOR/CONDUIT SCHEDULE

<input type="checkbox"/> TAG	DESCRIPTION AND CONDUCTOR TYPE	CONDUCTOR SIZE	NUMBER OF CONDUCTORS	CONDUIT/CABLE TYPE	CONDUIT SIZE
A	USE-2 <input type="checkbox"/> OR PV-WIRE <input type="checkbox"/> EGC/GEC:				
B	EGC/GEC:				
C	EGC/GEC:				

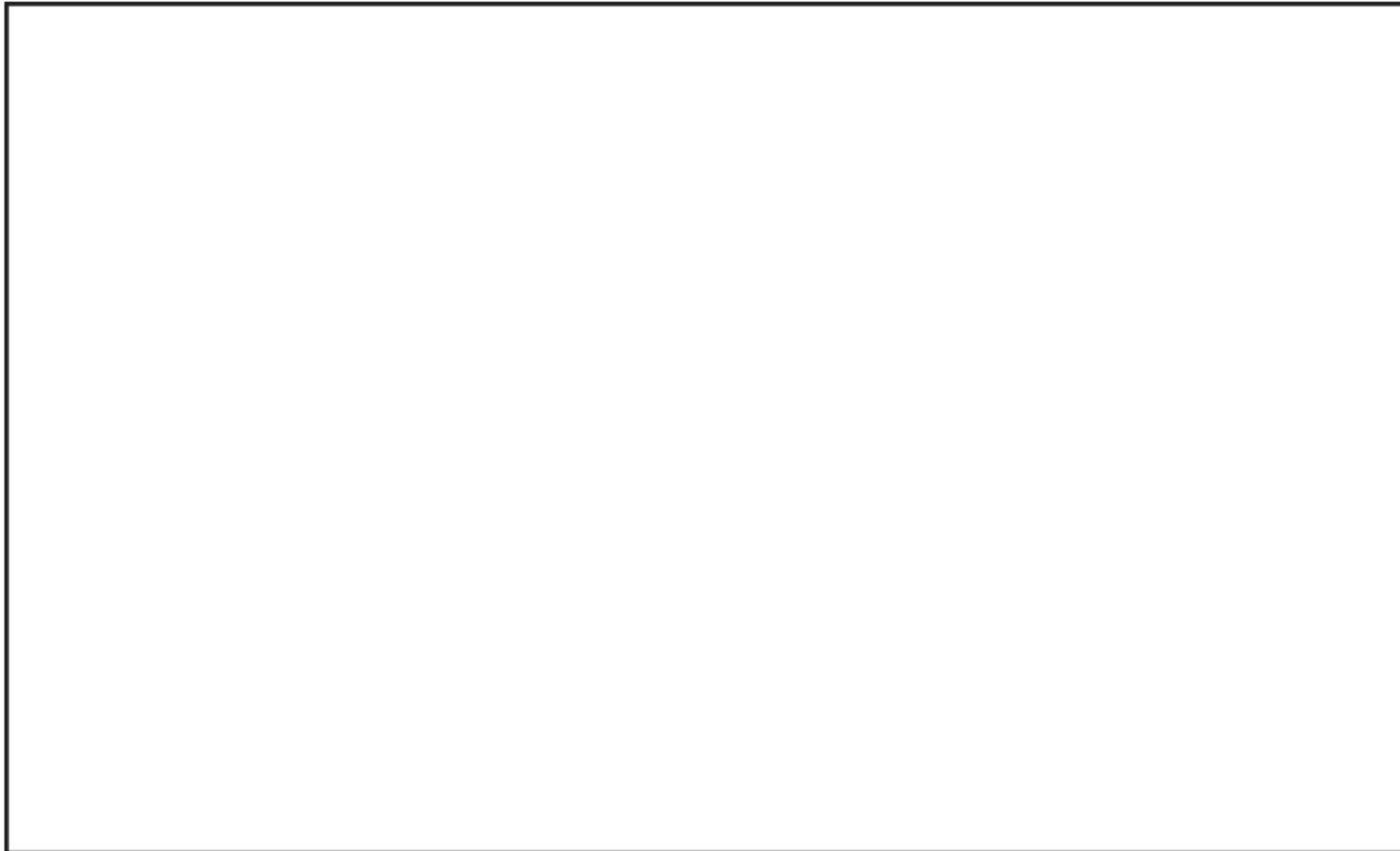
ENTER N/A WHERE SUITABLE FOR WHEN NOT USING CONDUIT OR CABLE AS PERMITTED BY CODE



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Roof Layout Diagram for One- and Two-Family Dwellings



Items required: roof layout of all panels, modules, clear access pathways and approximate locations of electrical disconnecting means, roof access points, and rapid shutdown initiation device.