

City of El Cajon Building and Fire Safety Division 200 Civic Center Way El Cajon, CA 92020

EXPEDITED PHOTOVOLTAIC APPLICATION

Phone: (619) 441-1726

Job Address:	Permit #	Date:		
Applicant Name:	Phone Number:			
Contractor Name:	Phone Number:	_ Phone Number:		
Expedited Photovoltaic Applications project <u>does not</u> meet this criteria, in Photovoltaic Plan Check Permit. Check Expedited Process. Failure to continuous Work Notice for your project and additional proje	t must be submitted for furth eck off each item below to v mply with the criteria outline	ner review, as a Standard rerify your project qualifies for red below will result in a Stop		
Criteria for Expedited Photovoltai	c Permit: (check below)			
☐ 1. Maximum 10 kilowatt AC (output.			
□ 2. System is roof mounted re	esidential limited to two stori	dential limited to two stories.		
3. Only one central inverter of disconnect. Inverter has in	or micro inverters are utilized stegrated DC Arc-fault Prote			
\Box 4. Minimum conduit size is 3	inch.			
5. Two ground rods (groundi ground.	electrodes) and water bond required or a single ufer			
☐ 6. Proposed PV system is no	ot a 2 nd system, nor an addit	ion to an existing system.		
Step 1. Required Applicable	Specification Sheets			
Check the boxes for all Speci	fication Sheets included in t	his submittal:		
☐ 1. Inverter				
☐ 2. Micro Inverter				
☐ 3. Modules				
☐ 4. Racking system/Ro	of attachment system			
☐ 5. Optimizer				
☐ 6 Rapid Shutdown				

Step 2. Modules

Provide the following information from	the PV Modules specification sheet.
Manufacturer:	Model:
Total Number of Modules =	
Total Number of Strings =	
Module Isc rating =	_ Amps
Number of Modules per string (largest string) =
Do the following calculation and use the	ne answer to determine wire size at location "A"
Isc rating X # Strings	X 1.25 =
If 20 to 30 amps use #10 conductor If 30 to 40 amps use # 8 conductors	at location "A" in wiring diagram.
*Note – If wire run is over 100 feet inc	rease by one wire size.
Calculate the following:	
Voc rating X # modules (pe (Maximum voltage per string connection a	er string) X 1.1 = at inverter cannot exceed 600 volts.)
Step 3. Inverter Type (Central or Mic	ro)
☐ Provide the following information for the	ne Central Inverter.
Manufacturer:	Model:
Grounded or Ungrounded system:	Grounded □ Ungrounded □
Use Maximum Continuous AC Output Currer location "B".	nt rating =Amps to determine wire size at
If under 20 amps use minimum #12 conductions of the following the follow	ctors at location "B" in wiring diagram. Fors at location "B" in wiring diagram.
*Note: System shall be configured for "Lister	d Panid Shutdown" ac nor CEC 600 12

*Note - System shall be configured for "Listed Rapid Shutdown" as per CEC 690.12.

Step 3. cont.

Bus Bar Rating

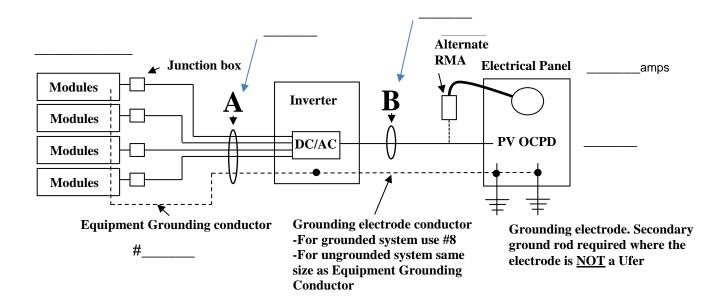
Main Breaker Size

	Micro Inverters	
□P	Provide the following information	tion for the Micro Inverters :
	Manufacturer:	Model:
If under	· 20 amps, use minimum #	12 conductors at location "A" in wiring diagram.
If 20 to	30 amps, use minimum #1	0 conductors at location "A" in wiring diagram.
*1	Note – If wire run is over 100) feet, increase by one wire size.
Step 4.	Point of Connection	to Utility (Check all that apply)
Step 4.	I office confidential	Check all that apply)
□ T	his project will utilize the util	ity renewable meter adaptor (RMA) device.
	n electrical service upgrade DG&E Planner Sheet mus	toAmps is included as a part of this permit, the provided.
□Т	he existing electrical service	e is adequate for the PV installation (CIRCLE BELOW)

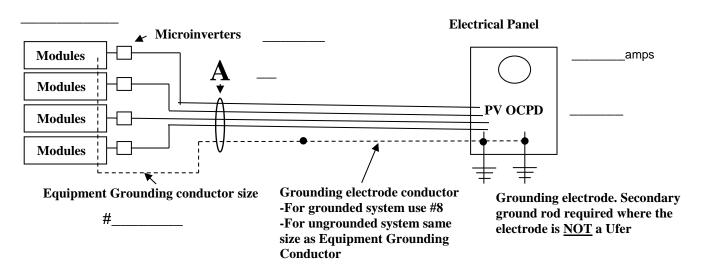
Max. Combined PV System (120%) 60* 60* 60* *This Value has been lowered to 60 amp from the calculated value to reflect 10 kw AC size Maximum.

Step 5. Typical Wiring Diagram (Inverter)

Fill in all applicable information or provide separate standard wiring diagram.

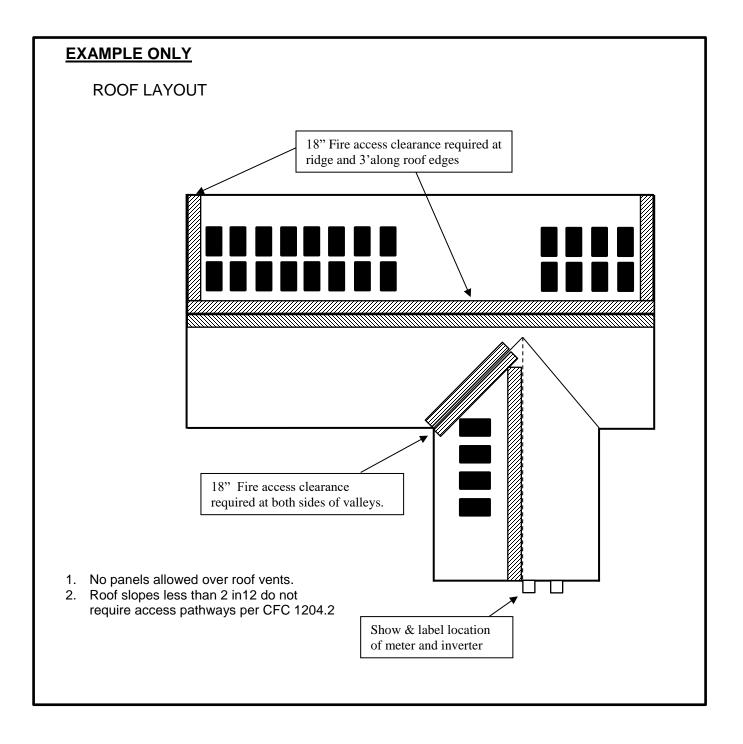


Typical Wiring Diagram (Micro-inverters)



Step 6. Fire Clearance at Roof

Draw a site plan in the space provided with this application or attach a separate site plan showing the Fire Department roof access and ridge clearances.



Step 6. Fire Clearance at Roof (cont.)

SITE PLAN & ROOF LAYOUT

Step 7. Labeling

The following minimum labels must be installed for final inspection.

1. At the PV breaker location

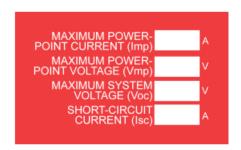




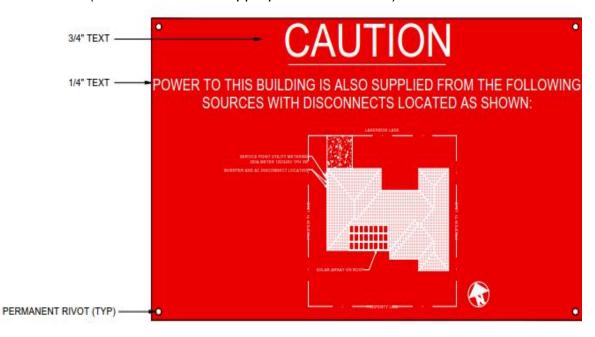
2. At junction boxes and on conduit at 10 foot intervals



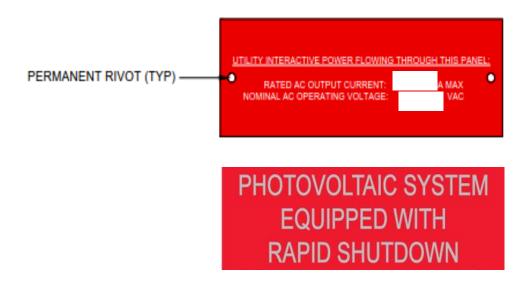
3. At the Inverter (Contractor to fill in appropriate information)



4. At the electrical service (Example only, replace with actual roof layout) (Contractor to fill in appropriate information)



Step 7. Labeling (cont.)



Step 8. General Notes/System Notes

Please be advised. The following notes concerning the installation of this photovoltaic system are required and are considered a part of this plan and approval.

- 1. All photovoltaic panels shall be listed and labeled in accordance with U.L. 1703.
- 2. Installation shall be installed per plan and in accordance with all manufacturer installation instructions.
- 3. The amperage of strings at connection to the inverter cannot exceed the inverter short circuit input rating.
- 4. System shall be configured for "Listed Rapid Shutdown" as per CEC 690.12.
- 5. For service upgrades the utility approved service order must be provided to the inspector at the time of inspection.
- 6. Any deviations from the information provided on this form will render your permit null and void.

I declare under	penalty of per	jury that the foregoing is true and correct.	
Printed Name: _		Signature:	
□ Contractor	□ Owner	Executed on (Date):	