

# Photovoltaic Systems Checklist

# For Roof Mounted Residential Systems

Building Permit Required	□ Yes	□ No	Qualifies for Electrical OTC?	□ Yes	□ No
Staff Initials	Date		Staff Initials	Date	

## **Project Information**

Project Applicant	
Site Owner Name	
Project Address	
PV System Description	

## **Does the Project Need a Building Permit?**

1.	PV system is designed and proposed for a detached single-family house.	니 Yes	🗆 No
2.	PV system is designed for the rooftop of a house in general compliance with	🗆 Yes	□ No
	applicable codes.		
3.	Mounting system is engineered and designed for PV.	🗆 Yes	□ No
4.	Rooftop is made from lightweight material such as shingles.	🗆 Yes	□ No
5.	PV system has been pre-approved by an electrical permitting agency.	🗆 Yes	□ No
6.	To address uplift, modules are mounted no higher than 18 inches above the surface		
	of the roofing to which they are affixed. Except for flat roofs, no portion of the		
	system may exceed the highest point of the roof.	🗆 Yes	□ No
7.	Total dead load of modules, supports, mountings, raceways and all other		
	appurtenances weigh no more than four (4) pounds per square foot.	🗆 Yes	□ No
8.	Supports for solar panels are installed to spread the dead load across as many		
	roof-framing members as needed to ensure that at no point loads of more than		
	fifty (50) pounds are created.	🗆 Yes	□ No
9.	Attachment to the roof is specified by the mounting system manufacturer.	🗆 Yes	□ No
10.	Method and type of weatherproofing roof penetrations are provided.	🗆 Yes	□ No
11.	The home is code compliant to setbacks and height, or code allows expansion of		
	nonconformity for solar panels.	🗆 Yes	□ No
12.	Panels are mounted no higher than the roof ridge or apex of the roof		
	(applies only to pitched roofs).		
13.	The PV installation meets the International Residential Code Section R324.	🗆 Yes	□ No

#### If you answered yes to all the above questions, no separate building permit is required.

### Does the Project Qualify for a Permit with no Plan Review?

Electrical contractors can apply to waive plan review and use a template electrical diagram provided by the city when the PV system meets the requirements in this checklist. All project plans and supporting documentation must be provided on-site for the inspector. The project will be subject to a field inspection. A pre-con/job-con inspection using code 400 is required at the beginning of your installation. This is to simplify access to equipment for listing mark verification and to ensure the project is being installed per the approved plans.

1.	PV modules, utility-interactive inverters and combiner boxes are			
	identified for use in PV systems.		🗆 Yes	□ No
2.	The AC interconnection point is on the load side of the service disconnect.			
	See NEC 705.12(B).		🗆 Yes	□ No
3.	The system meets all current NEC, City of Bellevue and Washington Cities			
	Electrical Code requirements.		🗆 Yes	□ No
4.	For Split-Buss panels the AC interconnection must be one of the			
	six service disconnects.	🗆 Yes	□ No	□ N/A

5. Maximum load added to the panelboard is based on the rating of the panelboard's bus/main OCPD combination and is limited to (check combination that applies):

225 amp bus/200 amp main OCPD - 13,440 watts, maximum 70 amp inverter OCPD (optional)
225 amp bus/225 amp main OCPD - 8,640 watts, maximum 45 amp inverter OCPD (optional)
200 amp bus/200 amp main OCPD - 7,860 watts, maximum 40 amp inverter OCPD
150 amp bus/150 amp main OCPD - 5,760 watts, maximum 30 amp inverter OCPD
125 amp bus/125 amp main OCPD - 4,800 watts, maximum 25 amp inverter OCPD
100 amp bus/100 amp main OCPD - 3,840 watts, maximum 20 amp inverter OCPD
Other- Electrical Permit with Plan Review Required

Note 1: Listed unaltered factory main/bus combination. Alteration of the panelboard main OCPD will require plan review.

Note 2: The circuit conductors and overcurrent devices shall be sized to carry not less than 125 percent of the maximum currents as calculated in 690.8(A). The rating or setting of overcurrent devices shall be permitted in accordance with 240.4(B) and (C).NEC 690.8(B)(1) Note 3: If a panelboard employs a snap switch rated 30 amperes or less in any branch circuit, it cannot be rated more than 200 amperes unless there is a supply side overcurrent protection at 200 amperes or less within the panelboard. This requirement does not apply to panelboards equipped with circuit breakers. Section 408.36(A) of the NEC.

- 6. I have attached the following Electrical Template and Site Plan:
  - □ Standard Electrical Diagram- 6 Strings or Less
  - □ Standard Electrical Diagram- 4 Strings or Less
  - □ Standard Electrical Diagram- Micro Inverter
  - □ None of the above- Electrical Permit with Plan Review Required

#### If you answered Yes or N/A to all the above questions and are using a template diagram provided by the city, your project qualifies for an electrical permit with no plan review.

Submit this checklist and the template electrical drawing and site plan with your online electrical permit application at MyBuildingPermit.com

I attest that all information in this checklist is accurate to the best of my knowledge.

Applicant Signature \_\_\_\_\_\_ Date \_\_\_\_\_