



**DEPARTMENT OF BUILDING INSPECTION Electrical
Permit Application for Roof-Mounted Solar Photovoltaic
(PV) Systems Only**

Permit #

Job Address:	Owner:	Phone: ()
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Contractor License #	License Class:	Business Tax License #:
Contractor/Applicant Name:		Applicant Phone: ()
Applicant Address:		Applicant Cell Phone: ()

Installation Description: Residential Non-Residential

Number of Roof-mounted Solar PV Modules	Watts per Module	Valuation of Electrical Work: \$
Number of Interactive Inverters	Power ratings (each)	Total No. of Rating KW
Additional Comments:		

PLEASE CHECK THE APPLICABLE BOXES:

- Total inverter power over 4kw (If checked, DBI Electrical review and approval of electrical one-line drawing is required in signature box 1)
- Roof area is greater than 5,000 sq. feet and solar PV modules cover more than 80% of the roof area. (If checked, Fire Department review and approval of PV module layout is required in signature box 2)
- Built up roof has more than one layer, or shingled roof has more than two layers, or attachment details not pre-approved. (If checked, DBI Structural review, approval of roof load & attachment details is required in signature box 3)

Please review your permit information for accuracy. A new permit is required to correct inaccuracies or omissions on issued permits.

Roof-mounted solar PV installations that conform to the general requirements itemized on side 2 of this Form will not require a building permit application, Planning Department approval, plan review, or equipment submittal. Contractor shall arrange a final inspection of the completed solar photovoltaic system, telephone **(415)558-6570**.

#1 Electrical review if solar PV system(s) installation is rated over 4kw	Date:
Signed by	Print Name Phone: ()

#2 Fire Dept. review if roof area is over 5,000 sq. ft. and solar PV modules cover more than 80% of roof area	Date:
Signed by	Print Name Phone: ()

#3 Structural review if solar system is installed over more than one layer of built-up roof or two layers of shingled roof	Date:
Signed by	Print Name Phone: ()

#4 The ten conditions listed on the reverse side of this form accurately represent the proposed solar photovoltaic project.	Date:
Signed by	Print Name Phone: ()

GENERAL REQUIREMENTS:

1. Solar PV panel modules will be supported on the roof or surface of the building that they serve.
2. The weight of solar PV panel modules and supporting hardware will not exceed 8 pounds per square foot.
3. Solar PV panel modules may be installed over only one roof covering of a flat/built up roof, or two roof coverings of a shingled roof unless otherwise approved by the Department of Building Inspection (DBI)
4. On a flat roof (up to 3:12) with one street frontage, a 36 inch clear area will be provided along the roof edge facing the street. A 36 inch clear walkway will be provided /maintained to allow access to rear of the building.
5. On a flat roof (up to 3:12) of a corner lot building having two street frontages, a 36 inch clear area will be provided along the roof edges facing both streets. No other walkway area is required.
6. On a pitched roof (over 3:12) a 36 inch clear area will be provided along the roof edge facing the street and a clear area of at least 18 inches, measured along the roof surface, will be provided from the ridge of the roof to the edge of the solar PV modules.
7. Clear access to fire standpipes and other emergency equipment is provided /maintained.
8. Storage batteries will not be part of this solar photovoltaic system.
9. The solar PV modules will not create and/or will not be part of a vertical or horizontal addition such as, a new roof structure or carport extending beyond the existing building.
10. The solar PV modules will be fastened to the roof in accordance with either
 - manufacture’s instructions pre-approved by DBI, or
 - the support/fastening system is pre-approved by DBI, or
 - the module mounting rack and roof attachment system is designed and/or installed under the direct supervision of a California licensed engineer or architect, or
 - the modules are fastened in accordance with the following table and requirements:

Number of modules (Max size 4’ by 6’)	Minimum Number of mounting points
1	4
2	4
3	6

If more than three modules, the number of mounting points shall be doubled per module.

- Assume two bolts per mounting point
- Lag bolts in wooden members will be ¼” diameter by 4” long, or 5/16” diameter by 3” long.
- Appropriate type and size fasteners will support solar PV panel modules fastened to other materials.

Note:

The contractor’s representative who is familiar with the solar PV system shall be on site for the inspection and shall provide access to all areas of the installation. The contractor’s representative shall make available all documents related to the solar PV system including: technical data, structural mounting details, and other related information. Since technical review is not required prior to electrical permit issuance for systems of 4kw or less, the permit holder shall demonstrate conformance with all requirements at time of inspection.