



Reviewed for Code Compliance  
Inspections Division  
Approved with Conditions  
Date: 02/07/18



# Grid Tied Photovoltaic Array

## DC Rating: 6.71 kW

### Project Scope:

Photovoltaic system consisting of (22) 305W modules flush mounted to asphalt shingle roof with (1) single phase grid tied inverter and interconnected with supply side connection in the main service panel.

### AHJ: City of Portland

### Equipment Specifications:

- (22) Modules: Qcell Q.PEAK-G4.1 305W
- (01) Inverter: SE6000H-US
- (22) SolarEdge P320 DC Optimizers
- Racking: Ironridge XR100 Aluminum Rail
- Roof Attachment: Aluminum L-Foot Secured with SS Lag Screws, 3" x 5/16"

### General Installation Notes:

- Installation follows all fire code setbacks per ordinances of the City of Portland.
- All work will comply with the ordinances of the City of Portland.
- Rooftop attachments are sealed and spaced to evenly distribute loads.
- All photovoltaic equipment is tested and listed by a recognized laboratory.
- Grounding and bonding procedures for all photovoltaic equipment comply with NEC 2014.
- Rapid shutdown requirements are in accordance with NEC 690.12.
- Conduit between subarrays, combiners, and disconnects shall take the shortest reasonable path.
- Space requirements for electrical equipment shall comply with NEC Article 110.
- Any plaques shall be of metal or plastic construction, with engraved or machine printed lettering, or electro-plating, in a red background with white lettering, a minimum of 3/8" height and all capital letters.

### Compliance Codes:

- City of Portland Building Code
- City of Portland Mechanical Code
- City of Portland Electrical Code
- City of Portland Plumbing Code
- City of Portland Fire Code
- 2014 National Electric Code (NFPA 70)
- ASCE/ANSI 7-05 Minimum Design Loads for Buildings and Other Structures

### Solar Rendering:



### Sheet List:

Sheet No.	Sheet Title
000	COVER
A01	SITE PLAN

142 Presumpscot Street  
Portland, ME 04103  
(207) 221-6342

Customer Name:

Dirane Kelekyan  
48 Overset Rd.  
Portland, ME 04103

System Type:

6.71 kW<sub>DC</sub>  
Solar Photovoltaic System

Designed by: GJD  
Date: 2018-JAN-16  
Rev. 0

COVER

000

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NOT FOR CONSTRUCTION

Equipment Specifications:

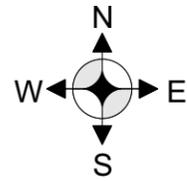
(22) Modules: Qcell Q.PEAK-G4.1 305W

(01) Inverter: SE6000H-US

(22) SolarEdge P320 DC Optimizers

Racking: Ironridge XR100 Aluminum Rail

Roof Attachment: Aluminum L-Feet Secured with SS Lag Screws, 3" x 5/16"



Proposed Photovoltaic Array, 10.14 kW<sub>DC</sub>



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SITE PLAN

A01

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