



Caution: Photovoltaic system performance predictions calculated by PVWatts® include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts® inputs. For example, PV modules with better performance are not differentiated within PVWatts® from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at //sam.nrel.gov) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

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The energy output range is based on analysis of 30 years of historical weather data, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

# RESULTS

# 4,318 kWh/Year\*

System output may range from 4,120 to 4,463 kWh per year near this location.

Month	Solar Radiation ( kWh / m <sup>2</sup> / day )	AC Energy ( kWh )
January	0.99	107
February	1.82	186
March	2.71	308
April	4.57	490
May	5.03	555
June	5.56	578
July	6.17	652
August	5.51	588
September	3.94	414
October	2.10	233
November	1.07	114
December	0.87	93
<b>Annual</b>	<b>3.36</b>	<b>4,318</b>

## Location and Station Identification

Requested Location	4045 w mercer way
Weather Data Source	Lat, Lng: 47.57, -122.22 0.9 mi
Latitude	47.57° N
Longitude	122.22° W

## PV System Specifications

DC System Size	4.68 kW												
Module Type	Standard												
Array Type	Fixed (roof mount)												
System Losses	14.08%												
Array Tilt	1°												
Array Azimuth	180°												
DC to AC Size Ratio	1.2												
Inverter Efficiency	96%												
Ground Coverage Ratio	0.4												
Albedo	From weather file												
Bifacial	No (0)												
Monthly Irradiance Loss	<table border="1"> <tr> <td>Jan</td><td>Feb</td><td>Mar</td><td>Apr</td><td>May</td><td>June</td> </tr> <tr> <td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td> </tr> </table>	Jan	Feb	Mar	Apr	May	June	0%	0%	0%	0%	0%	0%
	Jan	Feb	Mar	Apr	May	June							
0%	0%	0%	0%	0%	0%								
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July	Aug	Sept	Oct	Nov	Dec								
0%	0%	0%	0%	0%	0%								

## Performance Metrics

DC Capacity Factor	10.5%
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