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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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RESULTS

1,260,167 kWh/Year*

System output may range from 1,202,577 to 1,302,635 kWh per year near this location.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)
January	1.45	43,226
February	2.44	66,133
March	3.19	94,093
April	4.99	138,527
May	5.16	147,120
June	5.55	149,433
July	6.25	171,141
August	5.96	164,334
September	4.64	126,176
October	2.68	77,571
November	1.49	43,200
December	1.30	39,214
Annual	3.76	1,260,168

Location and Station Identification

Requested Location: 5425 w mercer way, mercer island, wa
 Weather Data Source: Lat, Lng: 47.57, -122.22 1.2 mi

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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.

Latitude 47.57° N
Longitude 122.22° W

PV System Specifications

DC System Size	1200 kW																								
Module Type	Standard																								
Array Type	Fixed (open rack)																								
System Losses	14.08%																								
Array Tilt	20°																								
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> <tr> <td>July</td> <td>Aug</td> <td>Sept</td> <td>Oct</td> <td>Nov</td> <td>Dec</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%	July	Aug	Sept	Oct	Nov	Dec	0%	0%	0%	0%	0%	0%
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0%	0%	0%	0%	0%	0%																				
July	Aug	Sept	Oct	Nov	Dec																				
0%	0%	0%	0%	0%	0%																				

Performance Metrics

DC Capacity Factor 12.0%