



RESULTS

8,247 kWh/Year*

System output may range from 7,870 to 8,525 kWh per year near this location.

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.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)
January	1.69	319
February	2.71	465
March	3.38	631
April	5.11	894
May	5.13	925
June	5.44	926
July	6.16	1,061
August	6.04	1,047
September	4.90	838
October	2.92	533
November	1.69	313
December	1.54	296
Annual	3.89	8,248

Location and Station Identification

Requested Location	5300 Butterworth Rd Mercer Island, WA 98040
Weather Data Source	Lat, Lng: 47.57, -122.22 1.0 mi
Latitude	47.57° N
Longitude	122.22° W

PV System Specifications

DC System Size	7.7 kW	
Module Type	Standard	
Array Type	Fixed (roof mount)	
System Losses	14.08%	
Array Tilt	30°	
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	Jan	0%
	Feb	0%
	Mar	0%
	Apr	0%
	May	0%
	June	0%
	July	0%
	Aug	0%
	Sept	0%
	Oct	0%
	Nov	0%
	Dec	0%

Performance Metrics

DC Capacity Factor	12.2%
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