



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 <https://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 for nearby , 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

8,333 kWh/Year*

System output may range from 7,916 to 8,519 kWh per year near this location.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)	Value (\$)
January	3.31	448	63
February	4.21	512	72
March	5.63	749	105
April	7.00	877	123
May	7.88	955	134
June	8.22	949	133
July	7.15	865	121
August	6.71	808	113
September	5.84	688	96
October	4.86	604	84
November	3.70	467	65
December	3.07	412	58
Annual	5.63	8,334	\$ 1,167

User Comments

WEST FACING (2 of 2)

Location and Station Identification

Requested Location	3298 W Five Mile Peak Dr. Queen Creek, AZ 85142
Weather Data Source	Lat, Lon: 33.17, -111.62 1.5 mi
Latitude	33.17° N
Longitude	111.62° W

PV System Specifications (Residential)

DC System Size	5.5 kW
Module Type	Standard
Array Type	Fixed (roof mount)
Array Tilt	20°
Array Azimuth	270°
System Losses	10%
Inverter Efficiency	96%
DC to AC Size Ratio	1.2

Economics

Average Retail Electricity Rate	0.140 \$/kWh
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Performance Metrics

Capacity Factor

17.3%
