



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

12,692 kWh/Year*

System output may range from 12,056 to 12,975 kWh per year near this location.

| Month | Solar Radiation (kWh / m ² / day) | AC Energy (kWh) | Value (\$) |
|---------------|---|----------------------|-----------------|
| January | 4.35 | 794 | 119 |
| February | 5.21 | 847 | 127 |
| March | 6.35 | 1,134 | 170 |
| April | 7.42 | 1,249 | 187 |
| May | 8.01 | 1,337 | 200 |
| June | 8.20 | 1,301 | 195 |
| July | 7.45 | 1,226 | 184 |
| August | 6.98 | 1,152 | 173 |
| September | 6.57 | 1,055 | 158 |
| October | 5.82 | 1,015 | 152 |
| November | 4.84 | 841 | 126 |
| December | 3.99 | 741 | 111 |
| Annual | 6.27 | 12,692 | \$ 1,902 |

Location and Station Identification

| | |
|---------------------|--------------------------------|
| Requested Location | 7635 E Ann Way Scottsdale, AZ |
| Weather Data Source | Lat, Lon: 33.61, -111.9 1.1 mi |
| Latitude | 33.61° N |
| Longitude | 111.9° W |

PV System Specifications (Residential)

| | |
|---------------------|--------------------|
| DC System Size | 7.52 kW |
| Module Type | Standard |
| Array Type | Fixed (roof mount) |
| Array Tilt | 20° |
| Array Azimuth | 135° |
| System Losses | 10% |
| Inverter Efficiency | 96% |
| DC to AC Size Ratio | 1.2 |

Economics

| | |
|---------------------------------|--------------|
| Average Retail Electricity Rate | 0.150 \$/kWh |
|---------------------------------|--------------|

Performance Metrics

| | |
|-----------------|-------|
| Capacity Factor | 19.3% |
|-----------------|-------|