NREL
NATIONAL RENEWABLE ENERGY LABORATORY

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.

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

8,020 kWh/Year*

System output may range from 7,653 to 8,180 kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)
January	4.27	567
February	4.60	553
March	5.39	681
April	6.07	743
May	6.44	799
June	6.25	744
July	6.09	744
August	5.89	713
September	5.72	681
October	5.62	701
November	4.79	597
December	3.80	497
Annual	**5.41**	**8,020**

Location and Station Identification

Requested Location	4710 Lurline St, New Orleans, LA 70127, USA
Weather Data Source	Lat, Lng: 30.01, -89.98 1.0 mi
Latitude	30.01° N
Longitude	89.98° W

PV System Specifications

DC System Size	5.4 kW
Module Type	Standard
Array Type	Fixed (open rack)
Array Tilt	20°
Array Azimuth	175°
System Losses	14.08%
Inverter Efficiency	96%
DC to AC Size Ratio	1.2

Performance Metrics

Capacity Factor	17.0%