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PV-DesignPro-S v5.0 Standalone Photovoltaic Energy System Design and Analysis Tool

Climate Shading Load PV Array Wind Wiring Battery Backup Inverter Calculate

Hourly Climate Analysis Charts

Horizontal Extraterrestrial Radiation (Red), Axis: W/m2

White: Diffuse Horizontal Radiation - Blue: Direct Beam Radiation on Horizontal Surface (Left Axis: W/m2), Yellow: Average Temperature (Right Axis: °C)

Red: Hourly Clearness Index: "k" (Left Axis: (GHR/HER) x 100), Blue: Wind Speed (Right Axis: m/s)

Climate Selection

c: [MICRON_HD]

- C:\
- MSESC
- PV-DesignPro-S
- Climates
- California

CA_ARCATA.mdb
CA_BAKERSFIELD.mdb
CA_DAGGETT.mdb
CA_FRESNO.mdb
CA_LONG_BEACH.mdb
CA_LOS_ANGELES.mdb
CA_SACRAMENTO.mdb
CA_SAN_DIEGO.mdb
CA_SAN_FRANCISCO.mdb

Load Climate

Current Climate File: c:\Program Files\PV-DesignPro\Climates\Hawaii\HI_KAHULUI.mdb

PV System Array Configuration

ASE-300-DGF/50 1999 EFG mc-Si

22 Number of Parallel Module Connection Strings
1 Number of Modules in Each Parallel String
2.427 Module Area (m)
6.4755 Isc (Short Circuit Current)
64.323 Voc (Open Circuit Volts)
5.9 Imp (Max Power Point Current)
51 Vmp (Max Power Point Volts)
0.00092 utsc A/K (Temp. Coefficient of Current)
-0.227 uVoc V/K (Temp. Coefficient of Voltage)
1.268 Diode Ideality Factor
108 Number of Cells in Series per Module
2 Number of Parallel Cell Strings per Module

PV Module Database Tracking Method MPPT Device Array Deratements

Hourly Climate Summary

Climate Summary Monthly Analysis Daily Analysis

Hourly Climate Charts Wind Rose Chart Solar Radiation Model OK

Module Database

Model	Vintage	Area	Material	Series Cells	Parallel Cells
Power AP-100	2001	0.974	c-Si	36	1
Power AP-100	2000 (E)	0.974	c-Si	36	1
Power AP-110	1999 (E)	0.974	c-Si	36	1
Power AP-110	2001	0.974	c-Si	36	1
Power AP-120	1999 (E)	0.974	c-Si	36	1
Power AP-120	2001	0.974	c-Si	36	1
Power AP-1206	1998	0.974	c-Si	36	1
Power AP-130	2001	0.974	c-Si	36	1
Power AP-130	2002 (E)	0.974	c-Si	36	1
Power AP-50	2000 (E)	0.974	c-Si	36	1
Power AP-50	2001	0.974	c-Si	36	1
Power AP-65	1999 (E)	0.974	c-Si	36	1
Power AP-75	2001	0.974	c-Si	36	1
Power AP-75	1999 (E)	0.974	c-Si	36	1
Power AP-8225	1997	0.974	c-Si	36	1
Power APX-110-SL	2002 (E)	0.974	c-Si	36	1
Power APX-110-SL	2002	0.974	c-Si	36	1
Power APX-120	2002 (E)	0.974	c-Si	36	1
Power APX-120	2001	0.974	c-Si	36	1
Power APX-130	2002 (E)	0.974	c-Si	36	1
Power APX-130	2001	0.974	c-Si	36	1

PV Array Tracking Method

Fixed Slope and Azimuth

Tracking on Horizontal East-West Axis

Tracking on Horizontal North-South Axis

Tracking with a Vertical Axis and Fixed Slope

Tracking on a North-South Axis Parallel to Earth's Axis

Continuous Tracking on Two Axes

21 Fixed Slope (0 = Horiz.) 0 Fixed Azimuth (S = 0, E-, W+, N)

OK

Array I-V Curve at 25°C ambient, 1000 W/m2

Leh: Amps (Blue) Right: Watts (Green) Bottom: Volts

Array Parameters Typical I-V and P-V Curve I-V Curve at 200-1000 W/m2 I-V Curve at 25°C and 50°C Max Power at 25°C to 50°C

Residential 600 kWh per Month.PV5 No Calculation 0.000% 0.000% 0 Seconds

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PV System Files... Help... Window

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Hourly Climate Analysis Charts

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White: Diffuse Horizontal Radiation • Blue: Direct Beam Radiation on Horizontal Surface (Left Axis: W/m^2), Yellow: Total Radiation

Red: Hourly Clearness Index: "k_t" (Left Axis: (GHR / H_{ER}) × 100), Blue: Wind Speed (m/s)

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c:\[MICRON_HD]

C:\
 MSEC
 PV-DesignPro-5
 Climates
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CA_ARCATA.mdb
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 CA_FRESNO.mdb
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OK

Array I-V and P-V Curve

Array I-V Curve at 25°C ambient, 1000 W/m^2 Left: Amps (Blue) Right: Watts (Green) Bottom: Volts

Array Parameters Typical I-V and P-V Curve I-V Curve at 200-1000 W/m^2 I-V Curve at 25°C and 50°C Max Power at 25°C to 50°C

Module Database

Model	Voltage	Area	Material	Series Cells	Parallel Cells
Power AP-100	2000 (E)	0.374	c-Si	36	1
Power AP-110	1939 (E)	0.374	c-Si	36	1
Power AP-110	2001	0.374	c-Si	36	1
Power AP-120	1939 (E)	0.374	c-Si	36	1
Power AP-120	2001	0.374	c-Si	36	1
Power AP-1206	1938	0.374	c-Si	36	1
Power AP-130	2001	0.374	c-Si	36	1
Power AP-130	2002 (E)	0.374	c-Si	36	1
Power AP-50	2000 (E)	0.374	c-Si	36	1
Power AP-50	2001	0.374	c-Si	36	1
Power AP-65	1939 (E)	0.374	c-Si	36	1
Power AP-75	2001	0.374	c-Si	36	1
Power AP-75	1939 (E)	0.374	c-Si	36	1
Power AP-9225	1937	0.374	c-Si	36	1
Power APX-110-SL	2002 (E)	0.374	c-Si	36	1
Power APX-110-SL	2002	0.374	c-Si	36	1
Power APX-120	2002 (E)	0.374	c-Si	36	1
Power APX-130	2002 (E)	0.374	c-Si	36	1
Power APX-130	2001	0.374	c-Si	36	1

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Residential 600 kWh per Month.PYS No Calculation 0.000% 0.000% 0 Seconds

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