

NSol! Grid System Report



Orion Energy Corporation

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Site Summary

Site Name: Massey Library
Latitude: 36.50 S
Array Tilt: 30 N
Comments: University of Wisconsin, Wisconsin, USA

Location: WHENUAPAI 3, , NEW ZEALAND
Longitude: 174.40 E
Azimuth: 0 E

Elevation: 31m
Tracking: Fixed

System Summary

PV Module

Type: BP 585U
Voc: 22.10
Isc: 5.00

Rated Pwr: 85
Vtyp: 18.00
Ityp: 4.72

PV Array

Modules: 96
Rated Pwr: 8.16kWp
MPP Volts: 108

Series: 6
Parallel: 16

Inverter

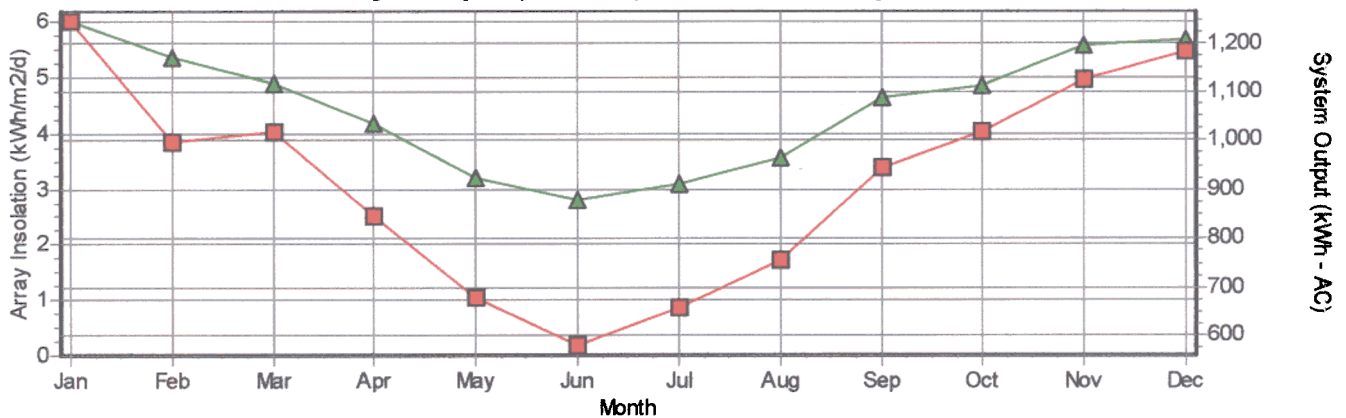
Model: Power Solutions Australia SGI 7-110
Rating (kW): 7.0 kW
AC Voltage: 240 AC / 1 Phase

Grid System Energy Output Analysis

Month	Array Insol (kWh/m ² /d)	Avg Temp (deg C)	Mod Output (WhDC/day)	Sys Losses (%)	Array Output (kWhDC/mo)	Sys Output (kWhAC/mo)	Inverter Eff (%)
Jan	6.00	17.6	494	10	1,323	1,243	94
Feb	5.35	18.6	440	10	1,063	1,000	94
Mar	4.89	17.1	404	10	1,082	1,017	94
Apr	4.18	15.2	347	10	901	847	94
May	3.19	13.1	269	10	720	677	94
Jun	2.81	10.9	238	10	617	580	94
Jul	3.07	9.6	261	10	699	657	94
Aug	3.54	10.3	300	10	804	755	94
Sep	4.62	11.3	388	10	1,005	944	94
Oct	4.84	13.2	405	10	1,084	1,019	94
Nov	5.56	14.8	462	10	1,197	1,126	94
Dec	5.67	16.4	470	10	1,258	1,182	94

Annual kWh 11,049

Monthly System Output
Sys Output (AC kWh) and Insolation by Month



▲ Array Insolation ■ AC Energy Production