Test System - PVSyst Summary																		
E-Grid kWh							kWh/m2											
	Inverter 1	Inverter 2	Inverter 3	Inverter 4	Total		Irradiance											
Jan	5669				5669		214.9											
Feb	4687				4687		167.3											
Mar	4248				4248		136.1											
Apr	3417				3417		95.6											
May	2527				2527		64.6											
Jun	2501				2501		57.4											
Jul	2534				2534		60.8											
Aug	2949				2949		81.4											
Sep	4020				4020		119.4											
Oct	5003				5003		165.8											
Nov	4735				4735		171.9											
Dec	5196				5196		197.1											
Total	47486	0	0	0	47486		1532.3											
Array Size	21.60	33.21	#N/A	#N/A	#N/A													
Specific Yield	2198.43	0.00	0.00	0.00	549.61													
Total Cell Area	116.8 m²	#VALUE!	#VALUE!	#VALUE!	#VALUE!													
Month							Irradiance							ce)				
	Inverter 1	Inverter 2	Inverter 3	Inverter 4		Days		Inverter 1	Inverter 2	Inverter 3	Inverter 4				Inverter 1	Inverter 2	Inverter 3	Inverter 4
Jan	201.9					31	Jan	6.51	0.00	0.00	0.00			Jan	22.58%			
Feb	168.7					28	Feb	6.2.	0.00	0.00	0.00			Feb	23.98%			
Mar	147.9					31	Mar	4.77	0.00	0.00	0.00			Mar	26.72%			
Apr	115.6					30	Apr	3.85	0.00	0.00	0.00			Apr	30.60%			
May	84.9					31	May	2.74	0.00	0.00	0.00			May	33.49%			
Jun	82.3					30	Jun	2.74	0.00	0.00	0.00			Jun	37.30%			
Jul	83.1					31	Jul	2.68	0.00	0.00	0.00							
Aug	97.7					31	Aug	3.15	0.00	0.00	0.00							
Sep	134.4					30	Sep	4.48	0.00	0.00	0.00							
Oct	170.1					31	Oct	5.49	0.00	0.00	0.00							
Nov	164.1					30	Nov	5.47	0.00	0.00	0.00							
Dec	181.5					31	Dec	5.85	0.00	0.00	0.00							
Total	1632.20	0.00	0.00	0.00	1632.2 Tot		Total	53.77	0.00	0.00	0.00	53.77 Tot						
GlobEff / kWp	75.56	0.00	0.00	0.00	18.89 Avg		GlobEff / kWp	2.49	0.00	0.00	0.00	0.62 Avg						

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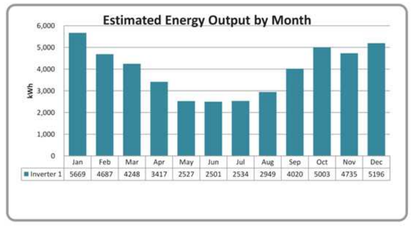
Test System - PVSyst Summary

E-Grid kWh

	Inverter 1	Inverter 2	Inverter 3	Inverter 4	Total
Jan	5669				5669
Feb	4687				4687
Mar	4248				4248
Apr	3417				3417
May	2527				2527
Jun	2501				2501
Jul	2534				2534
Aug	2949				2949
Sep	4020				4020
Oct	5003				5003
Nov	4735				4735
Dec	5196				5196
Total	47486	0	0	0	47486
Array Size	21.60	33.21	#N/A	#N/A	#N/A
Specific Yield	2198.43	0.00	0.00	0.00	549.61
Total Cell Area	116.8 m²	#VALUE!	#VALUE!	#VALUE!	#VALUE!

GlobHor kWh/m2

	Irradiance
Jan	214.9
Feb	167.3
Mar	136.1
Apr	95.6
May	64.6
Jun	57.4
Jul	60.8
Aug	81.4
Sep	119.4
Oct	165.8
Nov	171.9
Dec	197.1
Total	1532.3



GlobEff kWh/m2 / Month

	Inverter 1	Inverter 2	Inverter 3	Inverter 4	
Jan	201.9				
Feb	168.7				
Mar	147.9				
Apr	115.6				
May	84.9				
Jun	82.3				
Jul	83.1				
Aug	97.7				
Sep	134.4				
Oct	170.1				
Nov	164.1				
Dec	181.5				
Total	1632.20	0.00	0.00	0.00	1632.2 Tot
GlobEff / kWp	75.56	0.00	0.00	0.00	18.89 Avg

GlobEff kWh/m2 / Day = Average Daily Irradiance

Days		Inverter 1	Inverter 2	Inverter 3	Inverter 4	
31	Jan	6.51	0.00	0.00	0.00	
28	Feb	6.03	0.00	0.00	0.00	
31	Mar	4.77	0.00	0.00	0.00	
30	Apr	3.85	0.00	0.00	0.00	
31	May	2.74	0.00	0.00	0.00	
30	Jun	2.74	0.00	0.00	0.00	
31	Jul	2.68	0.00	0.00	0.00	
31	Aug	3.15	0.00	0.00	0.00	
30	Sep	4.48	0.00	0.00	0.00	
31	Oct	5.49	0.00	0.00	0.00	
30	Nov	5.47	0.00	0.00	0.00	
31	Dec	5.85	0.00	0.00	0.00	
	Total	53.77	0.00	0.00	0.00	53.77 Tot
	GlobEff / kWp	2.49	0.00	0.00	0.00	0.62 Avg

Efficiency (Yield/Irradiance)

	Inverter 1	Inverter 2	Inverter 3	Inverter 4
Jan	22.58%			
Feb	23.98%			
Mar	26.72%			
Apr	30.60%			
May	33.49%			
Jun	37.30%			
Jul	35.68%			
Aug	31.01%			
Sep	28.82%			
Oct	25.83%			
Nov	23.58%			
Dec	22.57%			
Average	28.51%	0.00%	0.00%	0.00%

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- Grid Tie Power Plant						
Project:	Test System					
Address:	MELBOUNE CITY					
Notes:	Prelim Design					
Model	20000TL-30			**Quantity**	1	
OUTPUT	**Pnom**	20000 W	**Pmax**	20000 W		
	Max AC Current	29.0 A	**AC Injection**	Three Phase	**Type**	TL
INPUT	**Vmpp min**	320 VDC	**Vmpp max**	800 VDC	**Pdc Max**	27.247 kWp
	Min Input V	150 VDC	**Max Input V**	1000 VDC		
	Mppt A Imax	33.0 A	**Mppt B Imax**	33.0 A		
	Mppt C Imax	0.0 A	**Mppt D Imax**	0.0 A		
Model	DV					
Pmax:	270 W	**Max V:**	1000 VDC	**(V/K)**		-0.1164
Voc @ STC:	38.8 VDC	**Vmpp @ STC:**	31.7 VDC	**(V/K)**		-0.0951
Isc @ STC:	9.9. A	**Impp @ STC:**	8.52 A	**(mA/K)**		5.454
	Classification:	Commercial			**NCC Class:**	7b
		Temp	**VocT**	**VmppT**	**IscT**	**ImppT**
	Temp					

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Design Summary - Grid Tie Power Plant (21.6 kWp)

Project: Test System
Address: MELBOUNE CITY
Notes: Prelim Design

1. INVERTER

Model	SMA / STP 20000TL-30			**Quantity**	1	
OUTPUT	**Pnom**	20000 W	**Pmax**	20000 W		
	Max AC Current	29.0 A	**AC Injection**	Three Phase	**Type**	TL
INPUT	**Vmpp min**	320 VDC	**Vmpp max**	800 VDC	**Pdc Max**	27.247 kWp
	Min Input V	150 VDC	**Max Input V**	1000 VDC		
	Mppt A Imax	33.0 A	**Mppt B Imax**	33.0 A		
	Mppt C Imax	0.0 A	**Mppt D Imax**	0.0 A		

2. PHOTOVOLTAIC MODULE

Model	Jinko / JKM270PP-60-DV				
Pmax:	270 W	**Max V:**	1000 VDC	**Temp Co Voc (V/K)**	-0.1164
Voc @ STC:	38.8 VDC	**Vmpp @ STC:**	31.7 VDC	**Temp Co Vmpp (V/K)**	-0.0951
Isc @ STC:	9.09 A	**Impp @ STC:**	8.52 A	**Temp Co Isc (mA/K)**	5.454

3. ENVIRONMENTAL

Building Classification: Commercial — **NCC Class:** 7b

	Temp	**VocT**	**VmppT**	**IscT**	**ImppT**
Site - Module Min Temp	-10 °C	42.9 VDC	35.8 VDC	8.9 A	8.3 A
Site - Module Max Temp	65 °C	34.1 VDC	27.0 VDC	9.3 A	8.7 A

4. DESIGN RESTRICTIONS

MPPT	Max Strings per MPPT	Max Array Size
A	3	13.333 kWp
B	3	13.333 kWp
C	0	0.000 kWp
D	0	0.000 kWp
INVERTER		26.667 kWp

Maximum string voltage: 1000 VDC
Maximum Number of Modules per string: 23
Minimum Number of Modules per string: 6

Note: figures based on inverter specifications considering module selection, temperature range and installation type. Array oversizing is guide only, please check inverter spec for

5. ARRAY CONFIGURATION

MPPT	**Strings**	**Modules**	**Qty**	**Voc / Vmpp**	**Isc / Impp**	**Pmax**
A	2	20	40	776 / 634	18.2 / 17	10800 W
B	2	20	40	776 / 634	18.2 / 17	10800 W
C			0	0 / 0	0 / 0	0 W
D			0	0 / 0	0 / 0	0 W
		Total Modules per Inverter	80		Array size per Inverter	21.600 kWp
		Total Modules	**80**		Combined array size	**21.600 kWp**

6. ISOLATION & PROTECTION

MPPT	String Fuse Rating (Isc x 1.5 & 2)	DC Isolator (max VocT x 1)	Combined (max IscT x1.5)
A	NA	858 VDC	23 A
B	NA	858 VDC	23 A
C	NA	0 VDC	0 A
D	NA	0 VDC	0 A

String Isolator Rating (IscT x1.5) 14 A
Earthed Array Yes
AC Breaker 32 A

Checks
Input Voltage Max OK
Input Voltage Min OK
Input Current OK
Array Size OK
Array Isolator NOTE: Array Isolator rating must be per pole!

General Notes:
Voc - Open circuit Voltage
VocT - Voc adjusted for operating temperature
Isc - Short circuit current

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