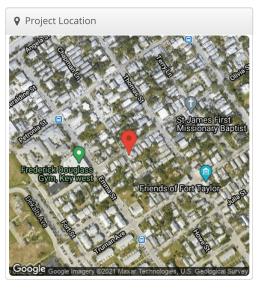


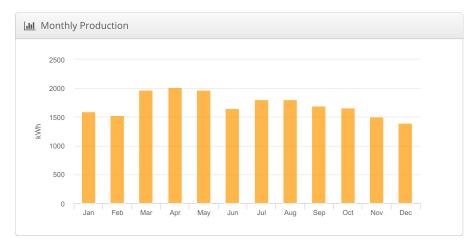


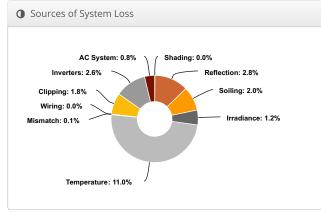
## Layout 1 Marge Holtz, 210 Olivia St, key west



Lill System Metrics									
Design	Layout 1								
Module DC Nameplate	12.3 kW								
Inverter AC Nameplate	9.80 kW Load Ratio: 1.25								
Annual Production	20.59 MWh								
Performance Ratio	79.4%								
kWh/kWp	1,673.6								
Weather Dataset	TMY, 10km Grid (24.55,-81.85), NREL (prospector)								
Simulator Version	30e0ed0a01-2e589a52f5-9eaf57d037- cbad0ebfbc								







	Description	Output	% Delta					
	Annual Global Horizontal Irradiance	2,047.1						
Irradiance	POA Irradiance	2,106.9	2.9%					
	Shaded Irradiance	2,106.2	0.0%					
(kWh/m²)	Irradiance after Reflection	2,047.2	-2.8%					
	Irradiance after Soiling	2,006.3	-2.0%					
	Total Collector Irradiance	2,006.8	0.0%					
	Nameplate	24,680.8						
	Output at Irradiance Levels	24,376.0	-1.2%					
	Output at Cell Temperature Derate	21,700.4	-11.0%					
Energy	Output After Mismatch	21,689.3	-0.1%					
(kWh)	Optimal DC Output	21,689.3	0.0%					
	Constrained DC Output	21,307.0	-1.8%					
	Inverter Output	20,758.1	-2.5%					
	Energy to Grid	20,585.8	-0.8%					
Temperature N	letrics							
	Avg. Operating Ambient Temp		25.5 °C					
	Avg. Operating Cell Temp		46.5 °C					
Simulation Met	rics							
Operating Hours								
Solved Hours								



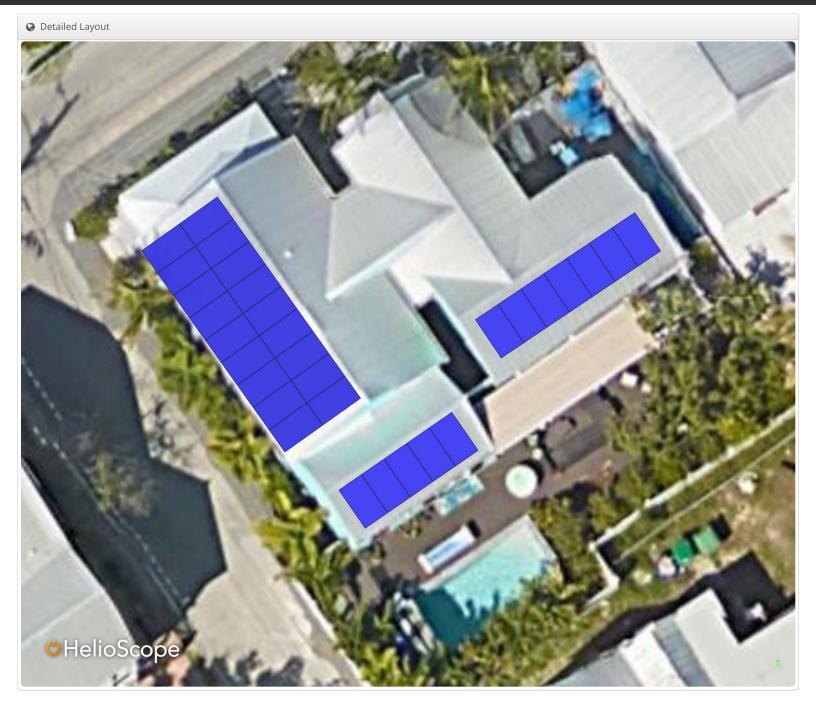
Condition Set													
Description	Cond	dition	Set 1	ı									
Weather Dataset	TMY,	TMY, 10km Grid (24.55,-81.85), NREL (prospector)											
Solar Angle Location	Mete	Meteo Lat/Lng											
Transposition Model	Pere	z Moc	lel										
Temperature Model	Sanc	Sandia Model											
	Rack	Туре			a		b		Т	emper	ature [	Delta	
Temperature Model	Fixe	d Tilt			-3	.56	-0.07	75	3	°C			
Parameters	Flus	h Mou	ınt		-2	.81	-0.04	155	C	°C			
	East-West				-3	-3.56 -0.07		75	5 3°C				
	Carp	ort			-3	.56	-0.07	75	3	°C			
Soiling (%)	J	F	M	M .		M	J	J	Α	S	0	N	D
30111118 (70)	2	2	2		2	2	2	2	2	2	2	2	2
Irradiation Variance	5%												
Cell Temperature Spread	4° C												
Module Binning Range	-2.59	6 to 2.	5%										
AC System Derate	0.50	%											
Module Characterizations	Mod	ule				Uploa By	aded	Cha	racte	rizatioı	า		
		-A410 Powe		С		Folso Labs	m	Sun		er_SPR	_A410_	_G_AC.	PAN,
Component Characterizations	Devi	ce		Uplo	oad	ed By			Char	acteriza	ation		

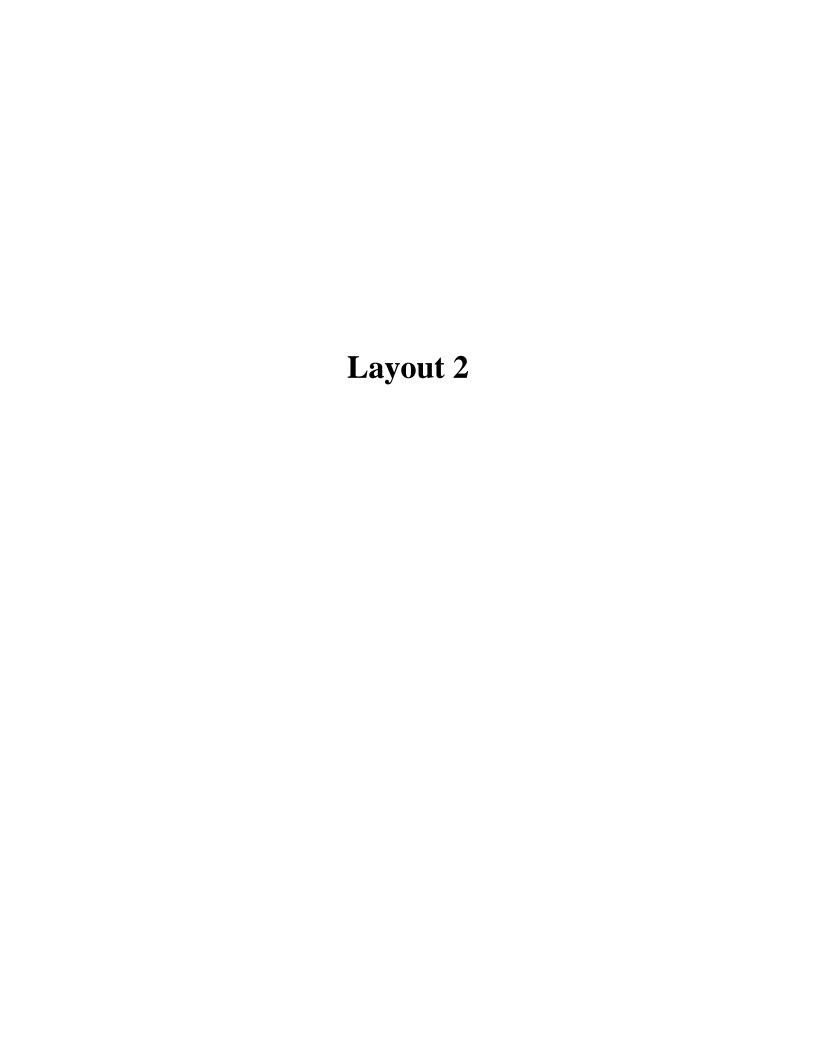
☐ Components									
Component	Name	Count							
Inverters	IQ7X-96-x-240 (Enphase)	23 (7.36 kW)							
Inverters	IQ7A-72-2-US (240V) (Enphase)	7 (2.44 kW)							
AC Panels	1 input AC Panel	1							
AC Panels	2 input AC Panel	1							
AC Home Runs	500 MCM (Copper)	2 (139.0 ft)							
AC Branches	10 AWG (Copper)	3 (49.5 ft)							
Module	SunPower, SPR-A410-G-AC (410W)	30 (12.3 kW)							

A Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	1-1	Along Racking
Wiring Zone 2	-	1-1	Along Racking

## Field Segments												
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power			
Field Segment 1	Flush Mount	Portrait (Vertical)	30°	234.58295°	0.0 ft	1x1	18	18	7.38 kW			
Field Segment 2	Flush Mount	Portrait (Vertical)	30°	146.12596°	1.6 ft	1x1	7	7	2.87 kW			
Field Segment 3	Flush Mount	Portrait (Vertical)	30°	145.43814°	1.6 ft	1x1	5	5	2.05 kW			





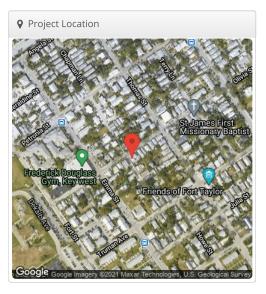


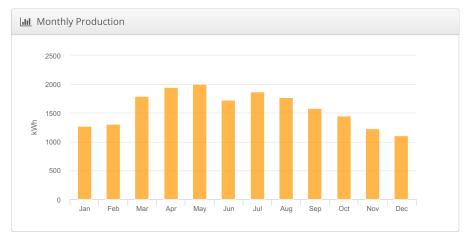


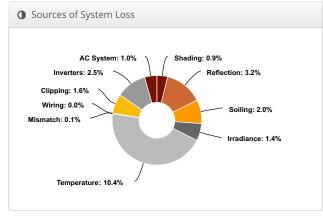
## Layout 2 Marge Holtz, 210 Olivia St, key west



System Met	rics
Design	Layout 2
Module DC Nameplate	12.3 kW
Inverter AC Nameplate	9.80 kW Load Ratio: 1.25
Annual Production	19.07 MWh
Performance Ratio	78.6%
kWh/kWp	1,550.1
Weather Dataset	TMY, 10km Grid (24.55,-81.85), NREL (prospector)
Simulator Version	453f41678c-09260645b7-b0bd33bbd8- a9fb6c4b03







	Description	Output	% Delta					
	Annual Global Horizontal Irradiance	2,047.1						
Irradiance	POA Irradiance	1,971.9	-3.7%					
	Shaded Irradiance	1,954.2	-0.9%					
(kWh/m <sup>2</sup> )	Irradiance after Reflection	1,891.9	-3.2%					
	Irradiance after Soiling	1,854.1	-2.0%					
	Total Collector Irradiance	1,851.3	-0.2%					
	Nameplate	22,770.8						
	Output at Irradiance Levels	22,442.4	-1.4%					
	Output at Cell Temperature Derate	20,107.5	-10.4%					
Energy	Output After Mismatch	20,097.0	-0.1%					
(kWh)	Optimal DC Output	20,097.0	0.0%					
	Constrained DC Output	19,766.6	-1.6%					
	Inverter Output	19,263.8	-2.5%					
	Energy to Grid	19,065.9	-1.0%					
Temperature M	etrics							
	Avg. Operating Ambient Temp		25.5 °C					
	Avg. Operating Cell Temp		44.9 °C					
Simulation Met	rics							
	0	perating Hours	4660					
Solved Hours								



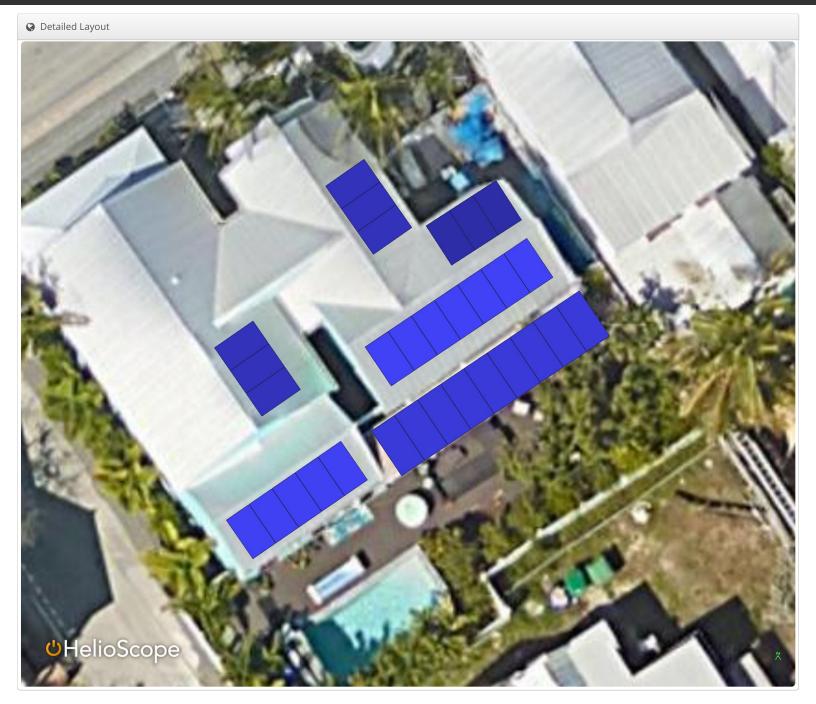
▲ Condition Set														
Description	Cond	dition	Set 1											
Weather Dataset	TMY,	TMY, 10km Grid (24.55,-81.85), NREL (prospector)												
Solar Angle Location	Mete	Meteo Lat/Lng												
Transposition Model	Pere	z Mod	lel											
Temperature Model	Sanc	lia Mc	del											
	Rack	(Туре			а		b			Te	mpera	ature [	Delta	
Temperature Model	Fixe	d Tilt			-3	.56	-0.07	75		3°	С			
Parameters	Flus	h Moı	ınt		-2	.81	-0.04	155		0°C				
	East-West					.56	-0.07	-0.075		3°C				
	Carp	ort			-3	.56	-0.07	75		3°	C			
Soiling (%)	J	F	M		Α	M	J	J	1	A	S	0	N	D
5511119 (74)	2	2	2		2	2	2	2		2	2	2	2	2
Irradiation Variance	5%													
Cell Temperature Spread	4° C													
Module Binning Range	-2.59	6 to 2	.5%											
AC System Derate	0.50	%												
Module Characterizations	Mod	ule				Uploa By	ded	Cha	ırac	teri	izatior	1		
		-A410 Powe				Folso Labs	m	Sur		wei	_SPR_	A410	G_AC	.PAN,
Component Characterizations	Devi	ce		Upl	oad	ed By			Ch	ara	cteriza	ition		

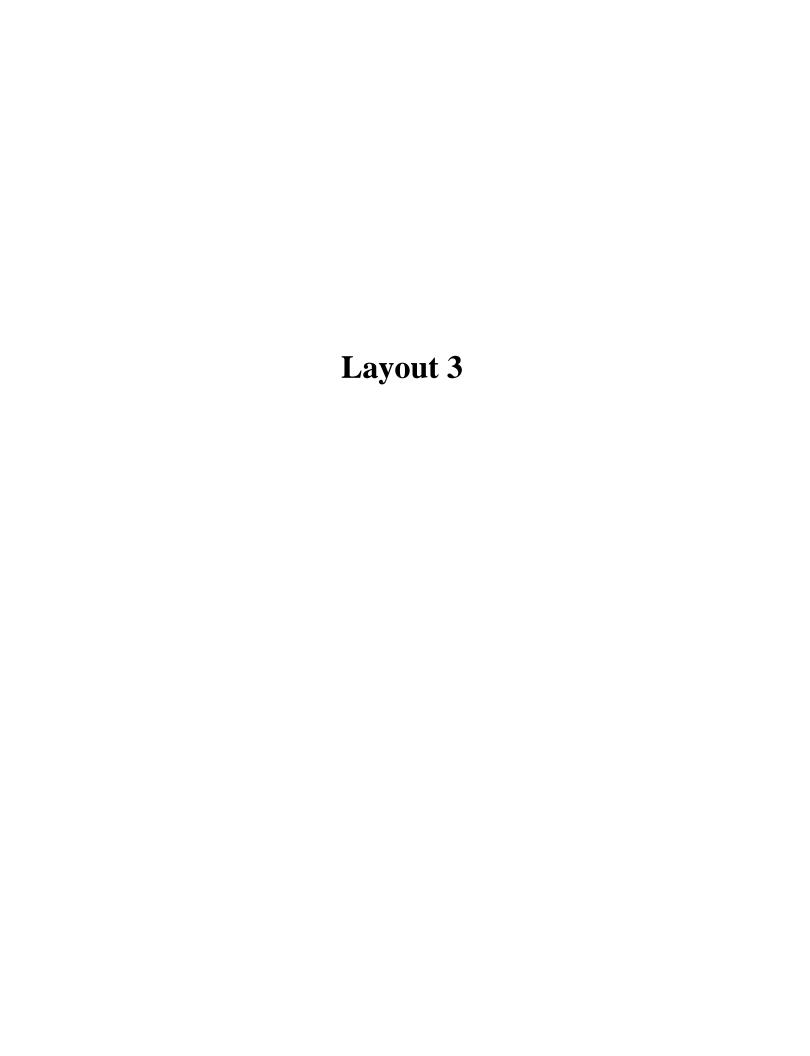
☐ Components									
Component	Name	Count							
Inverters	IQ7X-96-x-240 (Enphase)	23 (7.36 kW)							
Inverters	IQ7A-72-2-US (240V) (error) (Enphase)	7 (2.44 kW)							
AC Panels	1 input AC Panel	1							
AC Panels	2 input AC Panel	1							
AC Home Runs	500 MCM (Copper)	2 (121.8 ft)							
AC Branches	10 AWG (Copper)	3 (191.0 ft)							
Module	SunPower, SPR-A410-G-AC (410W)	30 (12.3 kW)							

Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	1-1	Along Racking
Wiring Zone 2	-	1-1	Along Racking

<b>Ⅲ</b> Field Segments												
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power			
Field Segment 2	Flush Mount	Portrait (Vertical)	30°	146.12596°	1.6 ft	1x1	7	7	2.87 kW			
Field Segment 3	Flush Mount	Portrait (Vertical)	30°	145.43814°	1.6 ft	1x1	5	5	2.05 kW			
Field Segment 4	Flush Mount	Portrait (Vertical)	0°	146.04094°	1.6 ft	1x1	9	9	3.69 kW			
Field Segment 4	Flush Mount	Portrait (Vertical)	30°	55.304848°	1.6 ft	1x1	3	3	1.23 kW			
Field Segment 5	Flush Mount	Portrait (Vertical)	30°	55.036903°	1.6 ft	1x1	3	3	1.23 kW			
Field Segment 6	Flush Mount	Portrait (Vertical)	30°	327.09476°	1.6 ft	1x1	3	3	1.23 kW			





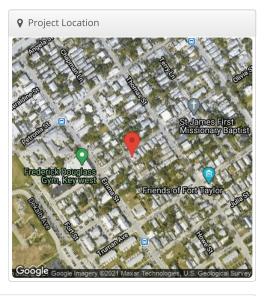


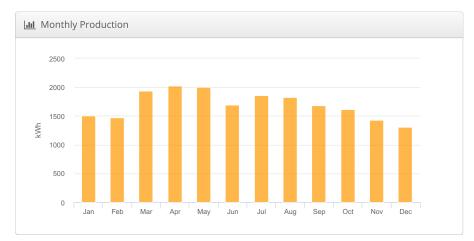


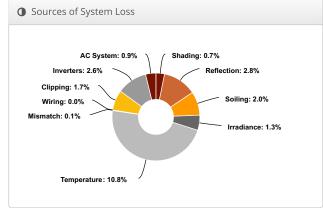
## Layout 3 Marge Holtz, 210 Olivia St, key west

& Report							
Project Name	Marge Holtz						
Project Description	Co-op Customer						
Project Address	210 Olivia St, key west						
Prepared By  Bob Williams bobw@saltservice.net							
SALTENERGY							

[.lil System Metrics						
Design	Layout 3					
Module DC Nameplate	12.3 kW					
Inverter AC Nameplate	9.80 kW Load Ratio: 1.25					
Annual Production	20.35 MWh					
Performance Ratio	79.0%					
kWh/kWp	1,654.7					
Weather Dataset	TMY, 10km Grid (24.55,-81.85), NREL (prospector)					
Simulator Version	30e0ed0a01-2e589a52f5-9eaf57d037- cbad0ebfbc					







5 Annual Pr	oduction							
	Description	Output	% Delta					
	Annual Global Horizontal Irradiance	2,047.1						
	POA Irradiance	2,095.4	2.4%					
Irradiance	Shaded Irradiance	2,080.3	-0.7%					
(kWh/m <sup>2</sup> )	Irradiance after Reflection	2,021.1	-2.8%					
	Irradiance after Soiling	1,980.7	-2.0%					
	Total Collector Irradiance 1,9							
	Nameplate	24,360.1						
	Output at Irradiance Levels	24,050.4	-1.3%					
	Output at Cell Temperature Derate	21,445.0	-10.8%					
Energy	Output After Mismatch	21,433.8	-0.1%					
(kWh)	Optimal DC Output	21,433.8	0.0%					
	Constrained DC Output	21,069.7	-1.7%					
	Inverter Output	20,530.3	-2.5%					
	Energy to Grid	20,352.2	-0.9%					
Temperature M	etrics							
	Avg. Operating Ambient Temp		25.5 °C					
Avg. Operating Cell Temp								
Simulation Met	rics							
	0	perating Hours	4660					
Solved Hours 466								



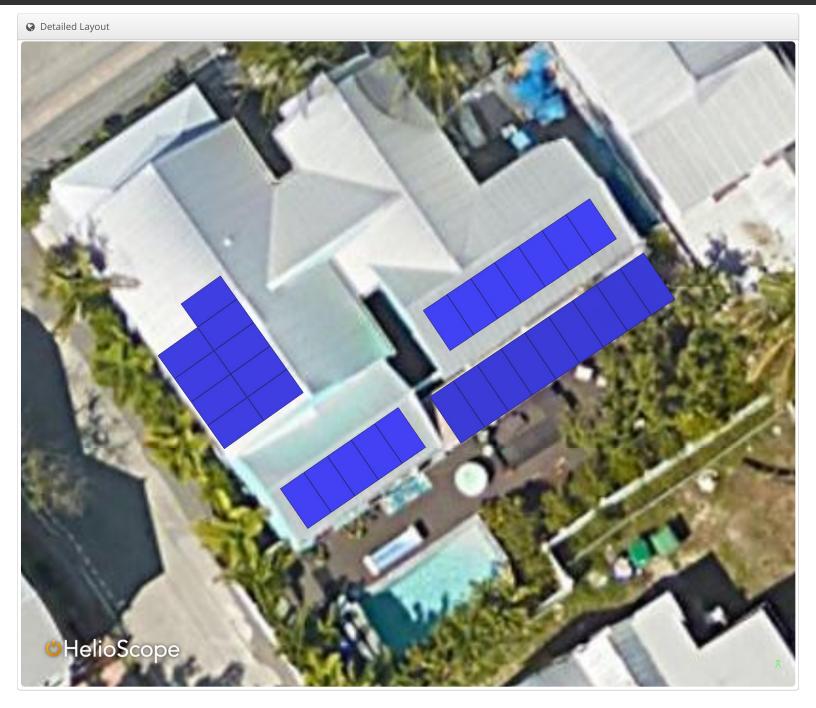
Condition Set														
Description	Cond	Condition Set 1												
Weather Dataset	TMY, 10km Grid (24.55,-81.85), NREL (prospector)													
Solar Angle Location	Mete	Meteo Lat/Lng												
Transposition Model	Pere	z Mod	lel											
Temperature Model	Sanc	lia Mc	del											
	Rack	(Туре			а		b			Te	mpera	ature [	Delta	
Temperature Model	Fixe	d Tilt			-3	.56	-0.07	75		3°	С			
Parameters	Flus	h Moı	ınt		-2	.81	-0.04	155	155 0°C					
	East-West				-3	.56	-0.075			3°C				
	Carp	ort			-3.56		-0.075			3°C				
Soiling (%)	J	F	M		Α	M	J	J	1	A	S	0	N	D
5511119 (74)	2	2	2		2	2	2	2		2	2	2	2	2
Irradiation Variance	5%													
Cell Temperature Spread	4° C													
Module Binning Range	-2.59	6 to 2	.5%											
AC System Derate	0.50	%												
Module Characterizations	Module				Uploaded By			Characterization						
	SPR-A410-G-AC (SunPower)					Folsom Labs			Sunpower_SPR_A410_G_AC.PAN, PAN					
Component Characterizations	Devi	Device Uploaded By Characterization												

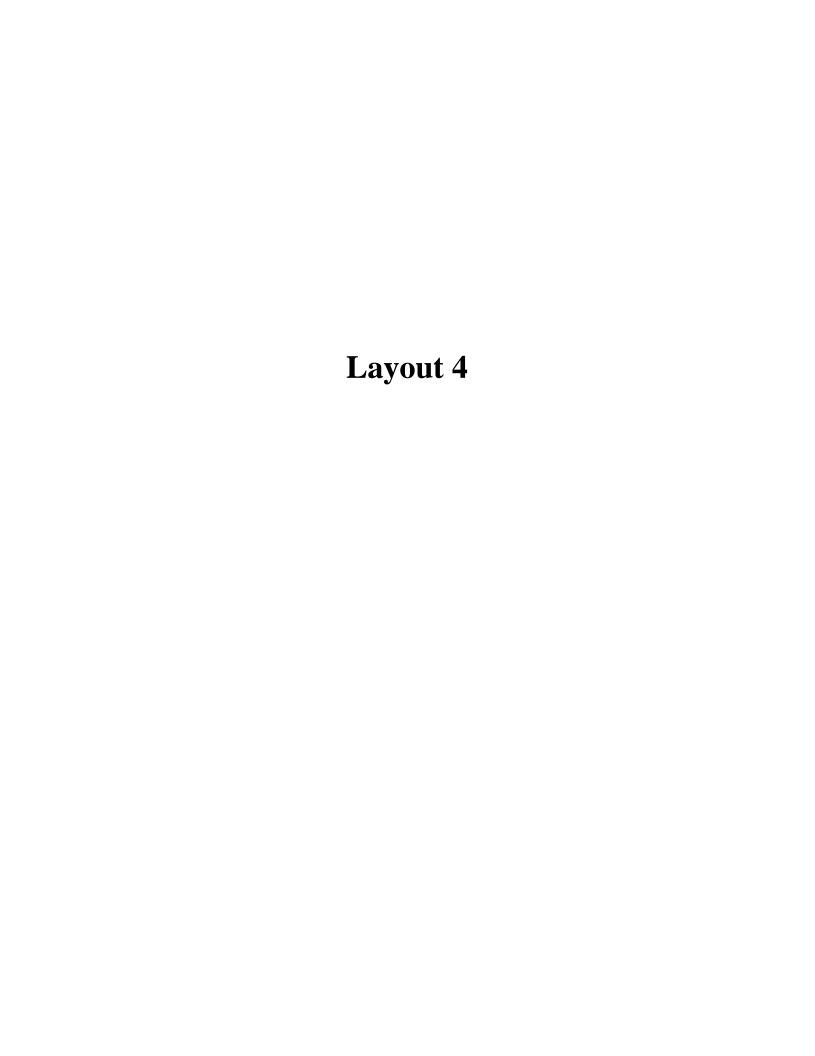
⊖ Components								
Component	Name	Count						
Inverters	IQ7X-96-x-240 (Enphase)	23 (7.36 kW)						
Inverters	IQ7A-72-2-US (240V) (Enphase)	7 (2.44 kW)						
AC Panels	1 input AC Panel	1						
AC Panels	2 input AC Panel	1						
AC Home Runs	500 MCM (Copper)	2 (128.8 ft)						
AC Branches	10 AWG (Copper)	3 (84.9 ft)						
Module	SunPower, SPR-A410-G-AC (410W)	30 (12.3 kW)						

♣ Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	•	1-1	Along Racking
Wiring Zone 2		1-1	Along Racking

<b>Ⅲ</b> Field Segm	nents								
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Flush Mount	Portrait (Vertical)	30°	234.58295°	0.0 ft	1x1	9	9	3.69 kW
Field Segment 2	Flush Mount	Portrait (Vertical)	30°	146.12596°	1.6 ft	1x1	7	7	2.87 kW
Field Segment 3	Flush Mount	Portrait (Vertical)	30°	145.43814°	1.6 ft	1x1	5	5	2.05 kW
Field Segment 4	Flush Mount	Portrait (Vertical)	0°	146.04094°	1.6 ft	1x1	9	9	3.69 kW





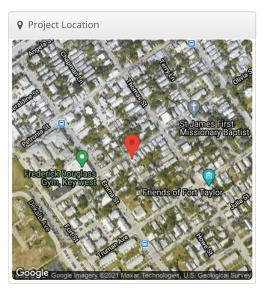


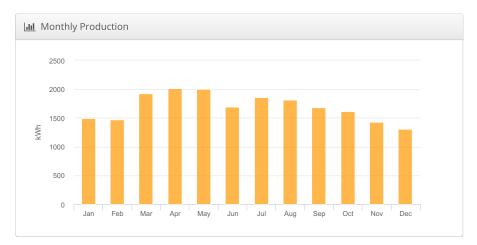


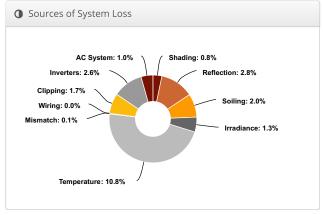
## Layout 4 Marge Holtz, 210 Olivia St, key west

& Report						
Project Name	Marge Holtz					
Project Description	Co-op Customer					
Project Address	210 Olivia St, key west					
Prepared By	Bob Williams bobw@saltservice.net					
SALTENERGY						

Lili System Metrics							
Design	Layout 4						
Module DC Nameplate	12.3 kW						
Inverter AC Nameplate	9.80 kW Load Ratio: 1.25						
Annual Production	20.30 MWh						
Performance Ratio	78.8%						
kWh/kWp	1,650.8						
Weather Dataset	TMY, 10km Grid (24.55,-81.85), NREL (prospector)						
Simulator Version	453f41678c-09260645b7-b0bd33bbd8- a9fb6c4b03						







	Description	Output	% Delta				
	Annual Global Horizontal Irradiance	2,047.1					
	POA Irradiance	2,095.0	2.3%				
Irradiance	Shaded Irradiance	2,079.0	-0.8%				
(kWh/m <sup>2</sup> )	Irradiance after Reflection	2,019.8	-2.8%				
	Irradiance after Soiling	1,979.4	-2.0%				
	Total Collector Irradiance	1,979.6	0.0%				
	Nameplate	24,346.4					
	Output at Irradiance Levels	24,036.3	-1.3%				
	Output at Cell Temperature Derate	21,430.8	-10.8%				
Energy	Output After Mismatch	21,419.7	-0.1%				
(kWh)	Optimal DC Output	21,419.7	0.0%				
	Constrained DC Output	21,051.2	-1.7%				
	Inverter Output	20,511.6	-2.5%				
	Energy to Grid	20,304.7	-1.0%				
Temperature M	etrics						
	Avg. Operating Ambient Temp		25.5 °C				
	Avg. Operating Cell Temp		46.2 °C				
Simulation Met	rics						
	0	perating Hours	4660				
Solved Hours 46							



Condition Set														
Description	Cond	Condition Set 1												
Weather Dataset	TMY, 10km Grid (24.55,-81.85), NREL (prospector)													
Solar Angle Location	Mete	Meteo Lat/Lng												
Transposition Model	Pere	Perez Model												
Temperature Model	Sandia Model													
	Rack	Туре			а		b			Te	mpera	ature [	Delta	
Temperature Model	Fixe	d Tilt			-3	.56	-0.07	75		3°	С			
Parameters	Flus	h Moı	unt		-2	.81	-0.04	.0455		0°0	С			
	East-West				-3	3.56 -0.0		75 3			3°C			
	Carp	ort			-3.56		-0.075			3°C				
Soiling (%)	J	F	М	A	4	М	J	J	A	4	S	0	N	D
5511119 (74)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Irradiation Variance	5%													
Cell Temperature Spread	4° C													
Module Binning Range	-2.59	6 to 2	.5%											
AC System Derate	0.50	%												
Module Characterizations	Module				Uploaded By			Characterization						
	SPR-A410-G-AC (SunPower)								Sunpower_SPR_A410_G_AC.PAN, PAN					
Component Characterizations	Devi	Device Uploaded By Characterization												

☐ Components								
Component	Name	Count						
Inverters	IQ7X-96-x-240 (Enphase)	23 (7.36 kW)						
Inverters	IQ7A-72-2-US (240V) (error) (Enphase)	7 (2.44 kW)						
AC Panels	1 input AC Panel	1						
AC Panels	2 input AC Panel	1						
AC Home Runs	500 MCM (Copper)	2 (128.8 ft)						
AC Branches	10 AWG (Copper)	3 (109.3 ft)						
Module	SunPower, SPR-A410-G-AC (410W)	30 (12.3 kW)						

Wiring Zones										
Description	Combiner Poles	String Size	Stringing Strategy							
Wiring Zone	-	1-1	Along Racking							
Wiring Zone 2	-	1-1	Along Racking							

<b>Ⅲ</b> Field Segments												
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power			
Field Segment 1	Flush Mount	Portrait (Vertical)	30°	234.58295°	0.0 ft	1x1	6	6	2.46 kW			
Field Segment 2	Flush Mount	Portrait (Vertical)	30°	146.12596°	1.6 ft	1x1	7	7	2.87 kW			
Field Segment 3	Flush Mount	Portrait (Vertical)	30°	145.43814°	1.6 ft	1x1	5	5	2.05 kW			
Field Segment 4	Flush Mount	Portrait (Vertical)	0°	146.04094°	1.6 ft	1x1	9	9	3.69 kW			
Field Segment 5	Flush Mount	Portrait (Vertical)	30°	235.89873°	1.6 ft	1x1	2	2	820.0 W			
Field Segment 6	Flush Mount	Portrait (Vertical)	30°	234.86581°	1.6 ft	1x1	1	1	410.0 W			



