

Design 1

Lindner, Leopoldstraße 63, Coburg

Report

Project Name	Lindner
Project Address	Leopoldstraße 63, Coburg
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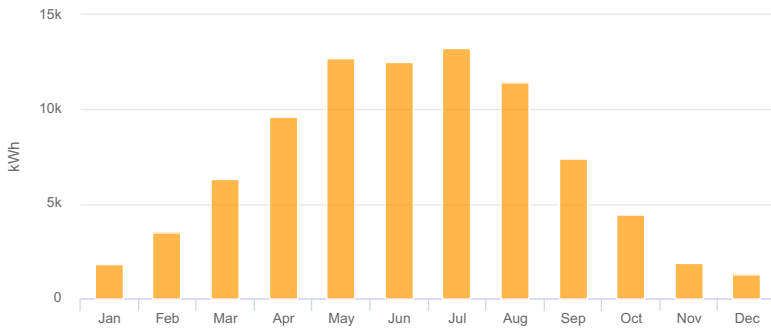
System Metrics

Design	Design 1
Module DC Nameplate	99.2 kW
Inverter AC Nameplate	100.0 kW Load Ratio: 0.99
Annual Production	86.26 MWh
Performance Ratio	82.9%
kWh/kWp	869.6
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)
Simulator Version	63ee6c5b8f-982797a583-9e3d9214f6-1ebb25fe50

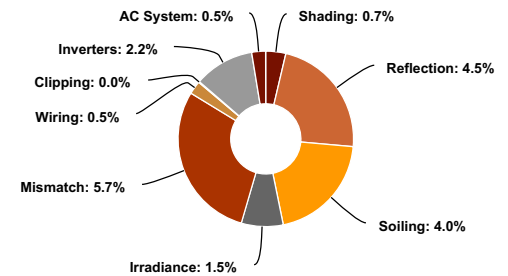
Project Location



Monthly Production



Sources of System Loss



Annual Production

	Description	Output	% Delta
Irradiance (kWh/m ²)	Annual Global Horizontal Irradiance	1,055.8	
	POA Irradiance	1,048.7	-0.7%
	Shaded Irradiance	1,041.1	-0.7%
	Irradiance after Reflection	994.7	-4.5%
	Irradiance after Soiling	954.9	-4.0%
	Total Collector Irradiance	954.9	0.0%
Energy (kWh)	Nameplate	95,943.0	
	Output at Irradiance Levels	94,488.3	-1.5%
	Output at Cell Temperature Derate	94,493.5	0.0%
	Output After Mismatch	89,078.8	-5.7%
	Optimal DC Output	88,651.2	-0.5%
	Constrained DC Output	88,623.7	0.0%
	Inverter Output	86,694.1	-2.2%
	Energy to Grid	86,260.7	-0.5%
Temperature Metrics			
	Avg. Operating Ambient Temp		11.5 °C
	Avg. Operating Cell Temp		16.4 °C
Simulation Metrics			
	Operating Hours		4589
	Solved Hours		4589

☁ Condition Set													
Description	Condition Set 1												
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)												
Solar Angle Location	Meteo Lat/Lng												
Transposition Model	Perez Model												
Temperature Model	Sandia Model												
Temperature Model Parameters	Rack Type		a		b		Temperature Delta						
	Fixed Tilt		-3.56		-0.075		3°C						
	Flush Mount		-2.81		-0.0455		0°C						
	East-West		-3.56		-0.075		3°C						
	Carport		-3.56		-0.075		3°C						
Soiling (%)	J	F	M	A	M	J	J	A	S	O	N	D	
	4	4	4	4	4	4	4	4	4	4	4	4	
Irradiation Variance	5%												
Cell Temperature Spread	4° C												
Module Binning Range	0% to 2.5%												
AC System Derate	0.50%												
Module Characterizations	Module				Uploaded By		Characterization						
	TSM-DE09.08 400 (Trina Solar)				Folsom Labs		Spec Sheet Characterization, PAN						
Component Characterizations	Device						Uploaded By		Characterization				
	blueplanet 50.0 TL3-INT XL (Kaco new energy)						Folsom Labs		Default Characterization				

🗂 Components		
Component	Name	Count
Inverters	blueplanet 50.0 TL3-INT XL (Kaco new energy)	2 (100.0 kW)
Strings	4 mm2 (Copper)	12 (508.5 m)
Module	Trina Solar, TSM-DE09.08 400 (400W)	248 (99.2 kW)

🔌 Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	18-24	Along Racking

🏠 Field Segments										
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power	
Field Segment 1	East-West	Landscape (Horizontal)	13°	180°	0.6 m	1x1	63	126	50.4 kW	
Field Segment 2	East-West	Landscape (Horizontal)	13°	286.0399433060496°	0.6 m	1x1	0	0	0	
Field Segment 3	East-West	Landscape (Horizontal)	13°	157.25462247842938°	0.6 m	1x1	25	50	20.0 kW	
Field Segment 4	East-West	Landscape (Horizontal)	13°	14.355097396268548°	0.6 m	1x1	36	72	28.8 kW	
Field Segment 5	East-West	Landscape (Horizontal)	13°	14.355098°	0.6 m	1x1	0	0	0	
Field Segment 6	East-West	Landscape (Horizontal)	13°	14.355098°	0.6 m	1x1	0	0	0	
Field Segment 7	East-West	Landscape (Horizontal)	13°	14.355098°	0.6 m	1x1	0	0	0	

