

Series 100 Configuration Tool Report

Company Name: SolarPanelStore.com
Project Name: GT-SB 1.8KW Sunny Boy Grid-Tie

Create Date: 2017-08-20T21:36:40-0700
Bill of Materials #80393

PV Module Data:

Module brand:	Custom...	Length:	64.5 inches	Frame color:	Black
Model:	Custom...	Width:	39 inches	Weight:	39.7 pounds
Rated power @ STC:	300 W	Depth:	1.57 inches		

Environmental Requirements:

Wind Speed Standard:	IBC 2015	Topographic Condition:	Standard
Snow Load:	0 psf	Rafter Spacing:	24 inches
Wind Speed:	110 mph		

System Style:

Roof Attachments:	Flashed L Foot, Black Galvanized Flashing, Black L Foot	Edge Screen Trim?:	No	Tilt Up?:	Contact SnapNrack Technical Support for assistance in designing tilt up applications.
Rail Finish:	Silver	Edge Screen Trim Size:	- inches		
End Clamp Type:	Universal	Microinverter Attachment Kits:	No		
Grounding Method:	UL 2703 Listed	Array Skirt(s)?:	No		

Sub-Array Summary:

Sub-Array	Sub-Array Modules	122" Rail	162" Rail	Rail Splices	Mid Clamps	End Clamps	Roof Attachments	Maximum Rail Span
1	6	4	0	0	8	8	8	96
Totals:	6	4	0	0	8	8	8	-

Total System Size: 1.80 kW

System Weights and Square Footage

Links to Relevant Information

SnapNrack System Weight	44.54	lbs	Engineering Documents
Total Module Weight	238.20	lbs	Installation Manuals
Microinverter/Optimizer Weight	0	lbs	System Drawings
Total System Weight	282.74	lbs	Video Tutorials
Array Square Footage	104.81	ft2	Distributors
Distributed Load	2.70	psf	Warranty

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Proposed Bill of Materials:

Part Number	Description	Qty
232-01068	SNAPNRACK, STANDARD RAIL, 122IN, SILVER	4
242-02054	SNAPNRACK, BONDING MID CLAMP ASSEMBLY, 1.31 - 1.77IN, BLACK	8
242-02215	SNAPNRACK, UNIVERSAL END CLAMP	8
232-01023	SNAPNRACK, STANDARD RAIL END CAP, BLACK	8
242-92051	SNAPNRACK, BLACK L FOOT, BLACK GALV FLASHING, AND BASE KIT	8
242-02101	SNAPNRACK, GROUND LUG ASSEMBLY, 6-12 AWG	2
System Total Weight:		282.74 lbs

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Sub-Array #1 P(2x3)

The maximum recommended Rail Span for this sub-array is **96 inches**. Rail Span reduction for modules located in the edge zone must be reduced to **72 inches**.

Group 1 Rail Length	Group 2 Rail Length	Group 3 Rail Length	Group 4 Rail Length	Group 5 Rail Length	122" Rail Qty	162" Rail Qty	Row Mid Clamps	Row End Clamps	Row Splices	Attachments	Module Bonding	Rail Bonding
118	-	-	-	-	2	0	4	4	0	4	0	1
118	-	-	-	-	2	0	4	4	0	4	0	1
Sub-Array Totals:					4	0	8	8	0	8	0	2

Orientation	Rows	Columns	Array Pitch	Mean Roof Height
Portrait	2	3	0 degrees	0 feet



Series 100 Structural Engineering Report			
Maximum Rail Span		Maximum Rail Cantilever	
Interior	Edge Zone	Interior	Edge Zone
116 inches	92 inches	39 inches	31 inches

Attachment Spacing Adjusted for Rafter Spacing				
Rafter Spacing	Max Attachment Spacing		Max Cantilever	
	Interior	Edge Zone	Interior	Edge Zone
24 inches	96 inches	72 inches	32 inches	24 inches

Sub-Array Modules	Edge Screen	Array Power
6	0 ft	1.8 kW

Array Skirts	
Maximum Span	Maximum Cantilever
0 inches	inches