

# Series 100 Configuration Tool Report

Company Name: SolarPanelStore.com  
Project Name: 4.5KW Enphase Grid-Tie Package

Create Date: 2017-08-20T06:55:01-0700  
Bill of Materials #80375

## PV Module Data:

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

## Environmental Requirements:

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

## System Style:

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

## Sub-Array Summary:

Sub-Array	Sub-Array Modules	122" Rail	162" Rail	Rail Splices	Mid Clamps	End Clamps	Roof Attachments	Maximum Rail Span
1	15	6	3	6	24	12	18	96
<b>Totals:</b>	<b>15</b>	<b>6</b>	<b>3</b>	<b>6</b>	<b>24</b>	<b>12</b>	<b>18</b>	<b>-</b>

**Total System Size: 4.50 kW**

## System Weights and Square Footage

## Links to Relevant Information

SnapNrack System Weight	110.54	lbs	<a href="#">Engineering Documents</a>
Total Module Weight	595.50	lbs	<a href="#">Installation Manuals</a>
Microinverter/Optimizer Weight	79.2	lbs	<a href="#">System Drawings</a>
Total System Weight	706.04	lbs	<a href="#">Video Tutorials</a>
Array Square Footage	262.03	ft2	<a href="#">Distributors</a>
Distributed Load	2.69	psf	<a href="#">Warranty</a>

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## Proposed Bill of Materials:

Part Number	Description	Qty
232-01068	SNAPNRACK, STANDARD RAIL, 122IN, SILVER	6
232-01070	SNAPNRACK, STANDARD RAIL, 162IN, SILVER	3
242-04014	SNAPNRACK, BONDING STANDARD RAIL SPLICE ASSEMBLY, SILVER	6
242-02054	SNAPNRACK, BONDING MID CLAMP ASSEMBLY, 1.31 - 1.77IN, BLACK	24
242-02215	SNAPNRACK, UNIVERSAL END CLAMP	12
232-01023	SNAPNRACK, STANDARD RAIL END CAP, BLACK	12
242-92051	SNAPNRACK, BLACK L FOOT, BLACK GALV FLASHING, AND BASE KIT	18
242-02101	SNAPNRACK, GROUND LUG ASSEMBLY, 6-12 AWG	3
242-92093	SNAPNRACK, MLPE RAIL ATTACHMENT KIT	15
<b>System Total Weight:</b>		<b>706.04 lbs</b>

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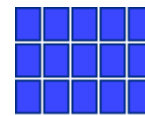
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## Sub-Array #1 P(3x5)

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
197	-	-	-	-	2	1	8	4	2	6	0	1
197	-	-	-	-	2	1	8	4	2	6	0	1
197	-	-	-	-	2	1	8	4	2	6	0	1
<b>Sub-Array Totals:</b>					<b>6</b>	<b>3</b>	<b>24</b>	<b>12</b>	<b>6</b>	<b>18</b>	<b>0</b>	<b>3</b>

Orientation	Rows	Columns	Array Pitch	Mean Roof Height
Portrait	3	5	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
15	0 ft	4.5 kW

Array Skirts	
Maximum Span	Maximum Cantilever
0 inches	inches