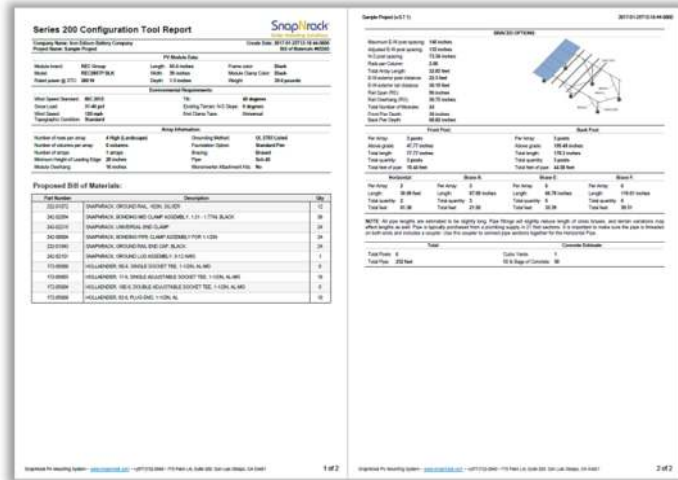


How to Decipher the Snap N Rack Configuration Tool Report



Series 200 Configuration Tool Report

Company Name: Iron Edison Battery Company
Project Name: Sample Project

Create Date: 2017-01-25T13:18:44-0800
Bill of Materials #65363

PV Module Data:

Module brand:	REC Group	Length: 65.6 inches	Frame color: Black
Model:	REC280TP BLK	Width: 39 inches	Module Clamp Color: Black
Rated power @ STC:	280 W	Depth: 1.5 inches	Weight: 39.6 pounds

- Specifications on the PV panel specified on this project, including electrical, dimensions, color and weight.

Environmental Requirements:

Wind Speed Standard: IBC 2012	Tilt: 40 degrees
Snow Load: 31-40 psf	Existing Terrain: N-S Slope: 0 degrees
Wind Speed: 120 mph	End Clamp Type: Universal
Topographic Condition: Standard	

- **Wind Speed Standard:** IBC 2009 / IBC 2012 – Determines which international building code wind speed requirements are enforced at the project site.
- **Snow Load:** Pounds per square foot snow load capacity the racking system is designed to withstand.
- **Wind Speed:** MPH wind speed the racking system is designed to withstand.
- **Topographical Condition:** Standard / Top of Hill / Costal / Mesa.
- **Tilt:** Angle of the array in degrees.
- **Existing Terrain:** N-S Slope – Any slope in the terrain where the array will be installed.
- **End Clamp Type:** Universal / Adjustable.

Array Information:			
Number of rows per array:	4 High (Landscape)	Grounding Method:	UL 2703 Listed
Number of columns per array:	6 columns	Foundation Option:	Standard Pier
Number of arrays:	1 arrays	Bracing:	Braced
Minimum Height of Leading Edge:	28 inches	Pipe:	Sch.40
Module Overhang:	16 inches	Microinverter Attachment Kits:	No

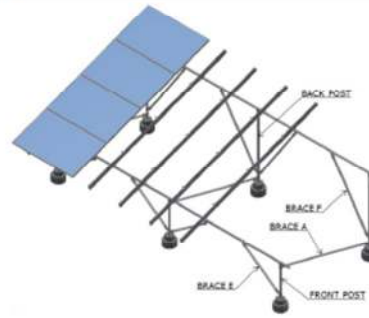
- **Number of rows per array:** Horizontal rows of PV panels per array.
- **Number of columns per array:** Vertical columns of PV panels per array.
- **Number of arrays:** Number of separate array structures at the project site.
- **Minimum Height of Leading Edge:** Height from grade to bottom edge of the array.
- **Module Overhang:** Distance the PV module will overhang the horizontal poles of the racking system.
- **Grounding Method:** The racking system is UL 2703 Listed.
- **Foundation Option:** Standard Pier / Grade Beam / Flange – How the vertical posts will be installed.
- **Bracing:** Standard / Braced – Level of bracing on the array structure.
- **Pipe:** Sched 40 / Sched 80 – Specification of pipe needed for array structure.
- **Microinverter Attachment Kits:** Optional brackets to install micro inverters for each PV panel.

Proposed Bill of Materials:		
Part Number	Description	Qty
232-01072	SNAPNRACK, GROUND RAIL, 162IN, SILVER	12
242-02054	SNAPNRACK, BONDING MID CLAMP ASSEMBLY, 1.31 - 1.77IN, BLACK	36
242-02215	SNAPNRACK, UNIVERSAL END CLAMP	24
242-09004	SNAPNRACK, BONDING PIPE CLAMP ASSEMBLY FOR 1-1/2IN	24
232-01043	SNAPNRACK, GROUND RAIL END CAP, BLACK	24
242-02101	SNAPNRACK, GROUND LUG ASSEMBLY, 6-12 AWG	1
172-05800	HOLLAENDER, 5E-8, SINGLE SOCKET TEE, 1-1/2IN, AL-MG	6
172-05803	HOLLAENDER, 17-8, SINGLE ADJUSTABLE SOCKET TEE, 1-1/2IN, AL-MG	18
172-05804	HOLLAENDER, 19E-8, DOUBLE ADJUSTABLE SOCKET TEE, 1-1/2IN, AL-MG	6
172-05808	HOLLAENDER, 62-8, PLUG END, 1-1/2IN, AL	10

- List & quantity of materials that will be included for this project.

BRACED OPTIONS:

Maximum E-W post spacing:	140 inches
Adjusted E-W post spacing:	135 inches
N-S post spacing:	73.54 inches
Rails per Column:	2.00
Total Array Length:	32.85 feet
E-W exterior post distance:	22.5 feet
E-W exterior rail distance:	30.19 feet
Rail Span (RS):	96 inches
Rail Overhang (RO):	30.75 inches
Total Number of Modules:	24
Front Pier Depth:	30 inches
Back Pier Depth:	68.82 inches



- **Maximum E-W post spacing:** Maximum East – West spacing for vertical posts.
- **Adjusted E-W post spacing:** Recommended East – West spacing for vertical posts on this project.
- **N-S post spacing:** Recommended North – South spacing for vertical posts on this project.
- **Rails per Column:** Number of rails per column of PV panels.
- **Total Array Length:** Total East – West length of array.
- **E-W exterior post distance:** Distance between Eastern most and Western most posts.
- **E-W exterior rail distance:** Distance between Eastern most and Western most rails.
- **Rail Span:** Length of each rail.
- **Rail Overhang:** Amount the rail will overhand the horizontal poles.
- **Total Number of modules:** Quantity of PV panels on the array.
- **Front Pier Depth:** Depth below grade of the front piers for the front row of vertical posts.
- **Back Pier Depth:** Depth below grade of the back piers for the back row of vertical posts.

Front Post:		Back Post:	
Per Array:	3 posts	Per Array:	3 posts
Above grade:	47.77 inches	Above grade:	109.48 inches
Total length:	77.77 inches	Total length:	178.3 inches
Total quantity:	3 posts	Total quantity:	3 posts
Total feet of pipe:	19.44 feet	Total feet of pipe:	44.58 feet

- **Per Array:** Quantity of posts in this array.
- **Above grade:** Length of the post to be above grade / concrete pier.
- **Total length:** Total length of the post.
- **Total quantity:** Quantity of front / back posts in this project.
- **Total feet of pipe:** Total length of pipe required for front/ back posts.

Horizontal:		Brace A:		Brace E:		Brace F:	
Per Array:	2	Per Array:	3	Per Array:	6	Per Array:	6
Length:	30.69 feet	Length:	87.69 inches	Length:	66.78 inches	Length:	119.01 inches
Total quantity:	2	Total quantity:	3	Total quantity:	6	Total quantity:	6
Total feet:	61.38	Total feet:	21.92	Total feet:	33.39	Total feet:	59.51

- **Per Array:** Quantity of horizontal pipes / braces required for each array.
- **Length:** Length of each horizontal pipe / brace.
- **Total quantity:** Quantity of horizontal pipes / braces required for entire project.
- **Total feet:** Length of pipe required for all horizontal pipes / braces.

Total:		Concrete Estimate:	
Total Posts:	6	Cubic Yards:	1
Total Pipe:	252 feet	60 lb Bags of Concrete:	50

- **Total Posts:** Total vertical posts for project.
- **Total Pipe:** Amount of pipe customer will need to provide for this project.
- **Cubic Yards:** Estimated amount of concrete customer will need to provide for this project.
- **60 lb Bags of Concrete:** Estimated amount of concrete customer will need to provide for this project.

NOTE: All Pipe and Concrete documented above is customer provided.