

Series 200 Configuration Tool Report

Company Name: Kyle Stowell
Project Name: Ground Mount

Create Date: 2016-10-22T13:02:57-0700
Bill of Materials #59374

PV Module Data:

Module brand:	JA Solar	Length:	64.96 inches	Frame color:	Silver
Model:	JAP6-60-255/MP	Width:	39 inches	Module Clamp Color:	Silver
Rated power @ STC:	255 W	Depth:	1.57 inches	Weight:	42.99 pounds

Environmental Requirements:

Wind Speed Standard:	IBC 2012	Tilt:	30 degrees
Snow Load:	41-50 psf	Existing Terrain: N-S Slope:	0 degrees
Wind Speed:	150 mph	End Clamp Type:	Adjustable
Topographic Condition:	Standard		

Array Information:

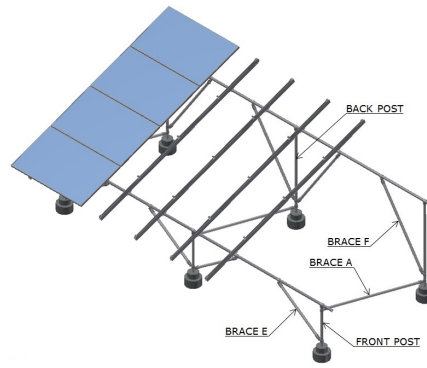
Number of rows per array:	2 High (Landscape)	Grounding Method:	UL 2703 Listed
Number of columns per array:	12 columns	Foundation Option:	Standard Pier
Number of arrays:	1 arrays	Bracing:	Braced
Minimum Height of Leading Edge:	32 inches	Pipe:	Sch.40
Module Overhang:	16 inches	Microinverter Attachment Kits:	No

Proposed Bill of Materials:

Part Number	Description	Qty
015-09839	SNAPNRACK, GROUND RAIL SET, 122IN, SILVER, 4 PC	3
242-02051	SNAPNRACK, BONDING MID CLAMP ASSEMBLY, 1.31 - 1.77IN, SILVER	26
242-02066	SNAPNRACK, BONDING ADJUSTABLE X-END CLAMP ASSEMBLY, 1.49 - 2.00IN, SILVER	50
242-09004	SNAPNRACK, BONDING PIPE CLAMP ASSEMBLY FOR 1-1/2IN	50
232-01043	SNAPNRACK, GROUND RAIL END CAP, BLACK	50
242-02101	SNAPNRACK, GROUND LUG ASSEMBLY, 6-12 AWG	1
172-05800	HOLLAENDER, 5E-8, SINGLE SOCKET TEE, 1-1/2IN, AL-MG	12
172-05803	HOLLAENDER, 17-8, SINGLE ADJUSTABLE SOCKET TEE, 1-1/2IN, AL-MG	37
172-05804	HOLLAENDER, 19E-8, DOUBLE ADJUSTABLE SOCKET TEE, 1-1/2IN, AL-MG	8
172-05808	HOLLAENDER, 62-8, PLUG END, 1-1/2IN, AL	16
242-01104	SNAPNRACK, JUNCTION BOX	1
232-01106	SNAPNRACK, WIRE RETENTION CLIP, COMPOSITE, BLACK	50
242-02102	SNAPNRACK, 4-WIRE CLAMP WITH CHANNEL NUT	4

BRACED OPTIONS:

Maximum E-W post spacing: **147 inches**
 Adjusted E-W post spacing: **147 inches**
 N-S post spacing: **46.77 inches**
 Rails per Column: **2.00**
 Total Array Length: **65.07 feet**
 E-W exterior post distance: **61.25 feet**
 E-W exterior rail distance: **62.41 feet**
 Rail Span (RS): **54 inches**
 Rail Overhang (RO): **12.25 inches**
 Total Number of Modules: **24**
 Front Pier Depth: **30.13 inches**
 Back Pier Depth: **66.49 inches**



Front Post:

Back Post:

Per Array: **6 posts**
 Above grade: **38.13 inches**
 Total length: **68.26 inches**
 Total quantity: **6 posts**
 Total feet of pipe: **34.13 feet**

Per Array: **6 posts**
 Above grade: **65.13 inches**
 Total length: **131.62 inches**
 Total quantity: **6 posts**
 Total feet of pipe: **65.81 feet**

Horizontal:

Brace A:

Brace E:

Brace F:

Per Array: **2**
 Length: **62.91 feet**
 Total quantity: **2**
 Total feet: **125.82**

Per Array: **6**
 Length: **60.34 inches**
 Total quantity: **6**
 Total feet: **30.17**

Per Array: **10**
 Length: **62.09 inches**
 Total quantity: **10**
 Total feet: **51.74**

Per Array: **10**
 Length: **81.5 inches**
 Total quantity: **10**
 Total feet: **67.92**

NOTE: All pipe lengths are estimated to be slightly long. Pipe fittings will slightly reduce length of cross braces, and terrain variations may effect lengths as well. Pipe is typically purchased from a plumbing supply in 21 foot sections. It is important to make sure the pipe is threaded on both ends and includes a coupler. Use this coupler to connect pipe sections together for the Horizontal Pipe.

Total:

Concrete Estimate:

Total Posts: **12**
 Total Pipe: **378 feet**

Cubic Yards: **1.7**
 60 lb Bags of Concrete: **85**