

Project Details

NAME	Fischer	DATE	2017-11-21
LOCATION	Portland, ME, 4101	TOTAL MODULES	18
MODULE	LG:LG330N1C-A5 (40mm)	TOTAL WATTS	5,940
DIMENSIONS	66.4" x 40.0" x 1.6" (1mm x 1mm x 40mm)	ATTACHMENT PTS	44

Load Assumptions

WIND EXPOSURE	B
WIND SPEED	100 mph
GROUND SNOW LOAD	70 psf
ATTACHMENT SPACING	3.0 ft

Building Details

ROOF SLOPE	35 deg
BUILDING HEIGHT	20 ft
RISK CATEGORY	I

Engineering

XR1000 SPAN DETAILS (Portrait)

Roof Zone	Max Span	Max Cantilever
1	5' 11"	2' 4"
2	5' 11"	2' 4"
3	5' 11"	2' 4"

MAXIMUM REACTION FORCES (Portrait)

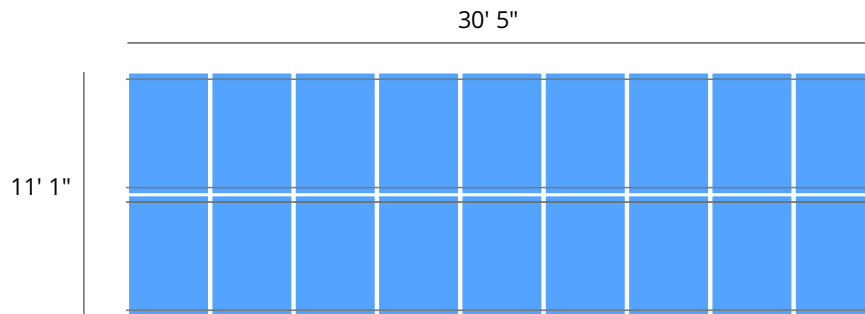
Roof Zone	Down	Uplift	Lateral
1	208.00	-68.00	133.00
2	208.00	-80.00	133.00
3	208.00	-80.00	133.00

System Weight

TOTAL WEIGHT	848 lbs
WEIGHT/ATTACHMENT	19.3 lbs
DISTRIBUTED WEIGHT	2.5 psf
RACKING WEIGHT	133.9 lbs

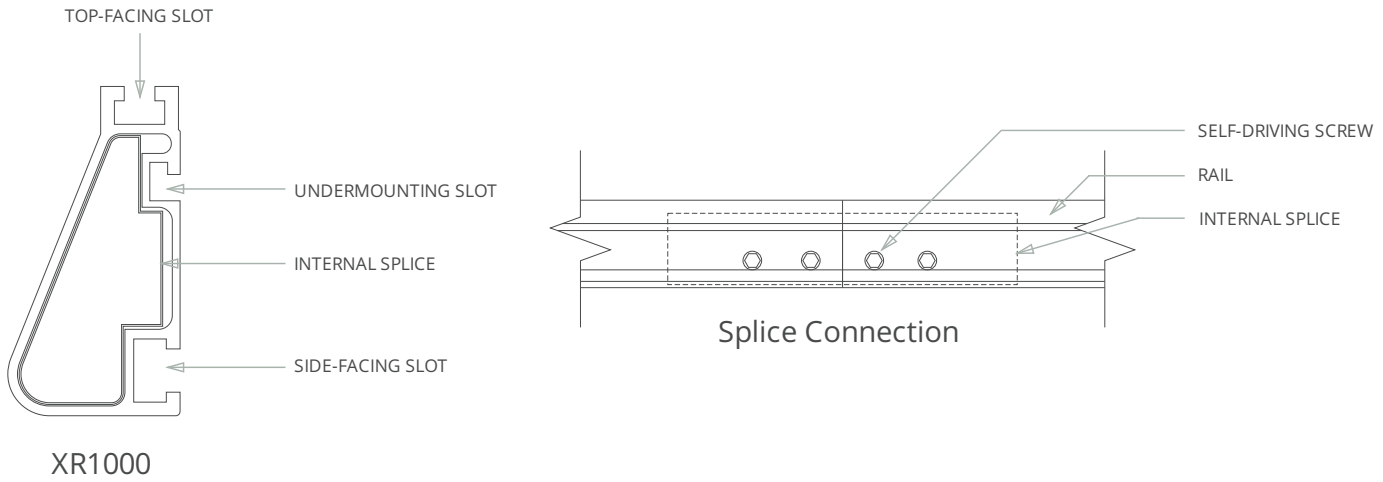
Array Details

Array	Cols	Rows	Orientation	Row Length	Provided Rails	Attachments	Clamps	Splices
A	9	2	PORTRAIT	30' 5"	124'[4 x 17', 4 x 14']	44	40	4

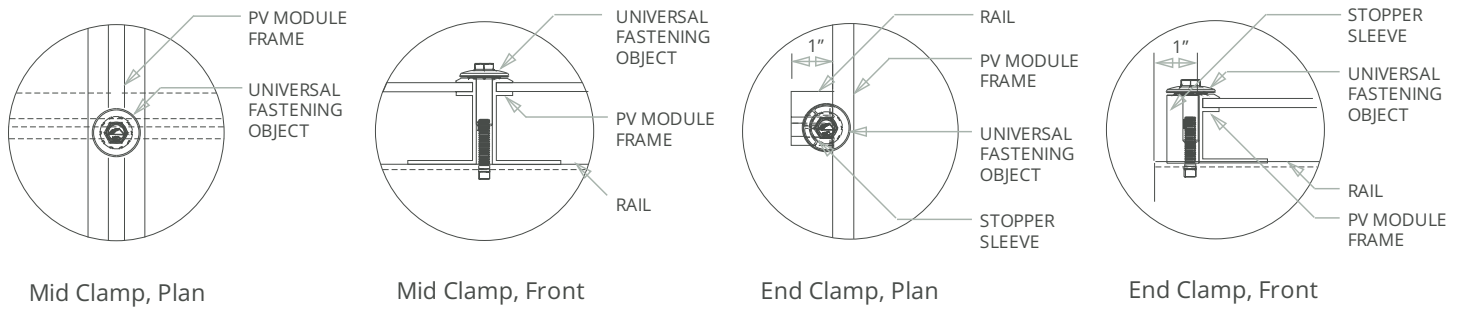


Note: The images displayed in this report are meant to represent one portion of the array. The use of a break line indicates that the array may continue on beyond that point.

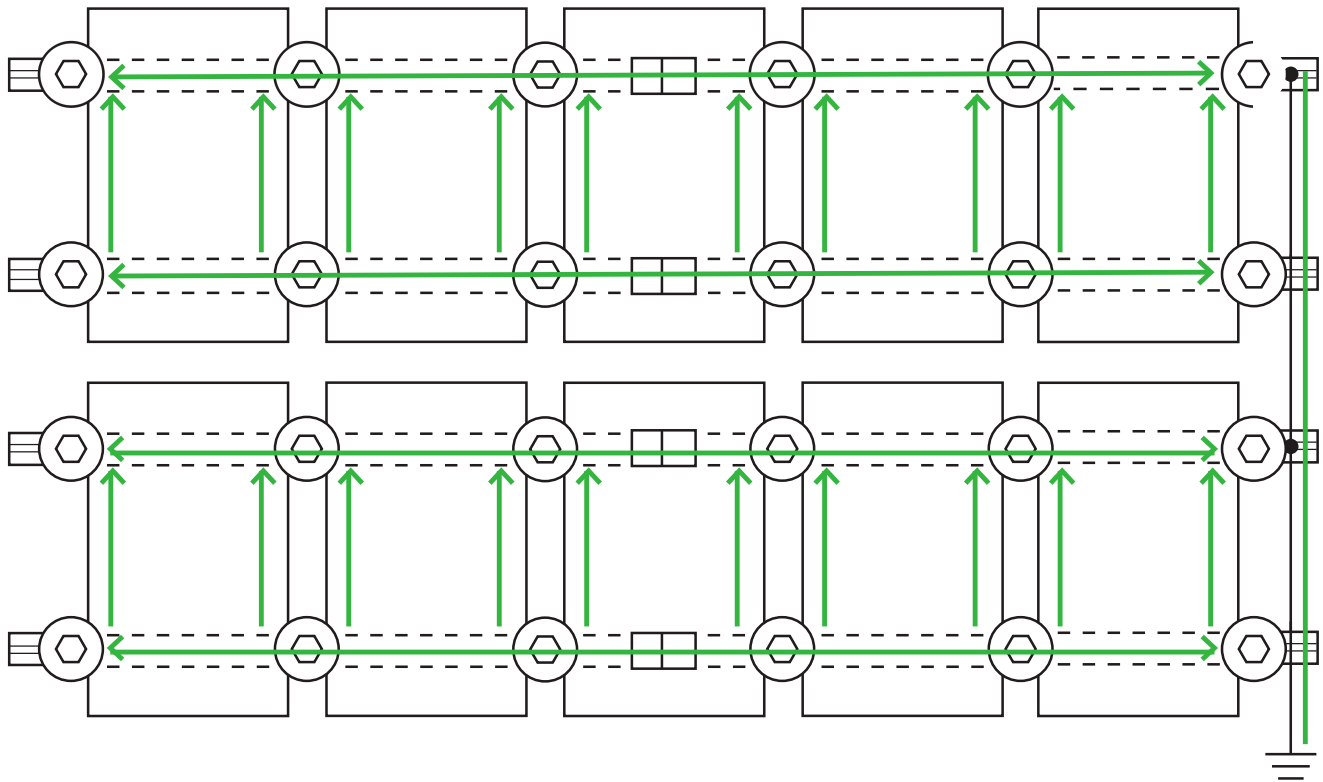
Splice Detail



Clamp Detail



Grounding Diagram



 UFO Clamp

 Fault Current Ground Path

 Grounding Lug *

 Min 10 AWG Copper Wire *

 Bonded Splice (Rail Connection)

* Grounding Lugs and Wire are not required in systems using Enphase microinverters.

Bill of Materials

GROUP	PART	DESCRIPTION	TOTAL QTY
RAILS & SPLICES	XR-1000-168A	XR1000, Rail 168" (14 Feet) Clear	4
	XR-1000-204A	XR1000, Rail 204" (17 Feet) Clear	4
	XR-1000-SPLC-BD	Kit, XR1000 Bonded Splice	4
CLAMPS & GROUNDING	UFO-CL-001	Kit, 4pcs, Universal Module Clamp	10
	GD-LUG-003	Kit, 2pcs, Grounding Lug, Low Profile	1
	UFO-STP-40MM	Kit, 4pcs, Stopper Sleeve, 40MM, Clear	2
ATTACHMENTS	FM-SQ-BHW-V2	Kit, 4pcs, Square-Bolt Bonding Attachment Hardware	11
ACCESSORIES	29-4000-077	Wire Clips, Molded PVC Black, Polybag 20	2
	XR-1000-CAP	Kit, End Cap XR1000 (10 sets per bag)	1