

PITCHED ROOF

Project Details

NAME	STI-900-0145	DATE	2017-09-19
LOCATION	Los Angeles, CA, 90001	TOTAL MODULES	42
MODULE	Canadian Solar:MaxPower2 CS6U-330 (40mm)	TOTAL WATTS	13,860
DIMENSIONS	77.2" x 39.1" x 1.6" (1mm x 992mm x 40mm)	ATTACHMENT PTS	72

Load Assumptions

WIND EXPOSURE	B
WIND SPEED	100 mph
GROUND SNOW LOAD	0 psf
ATTACHMENT SPACING	4.0 ft

Building Details

ROOF SLOPE	0 deg
BUILDING HEIGHT	30 ft
RISK CATEGORY	I

Engineering

XR100 SPAN DETAILS (Portrait)

Roof Zone	Max Span	Max Cantilever
1	9' 9"	3' 11"
2	8' 7"	3' 5"
3	6' 10"	2' 9"

MAXIMUM REACTION FORCES (Portrait)

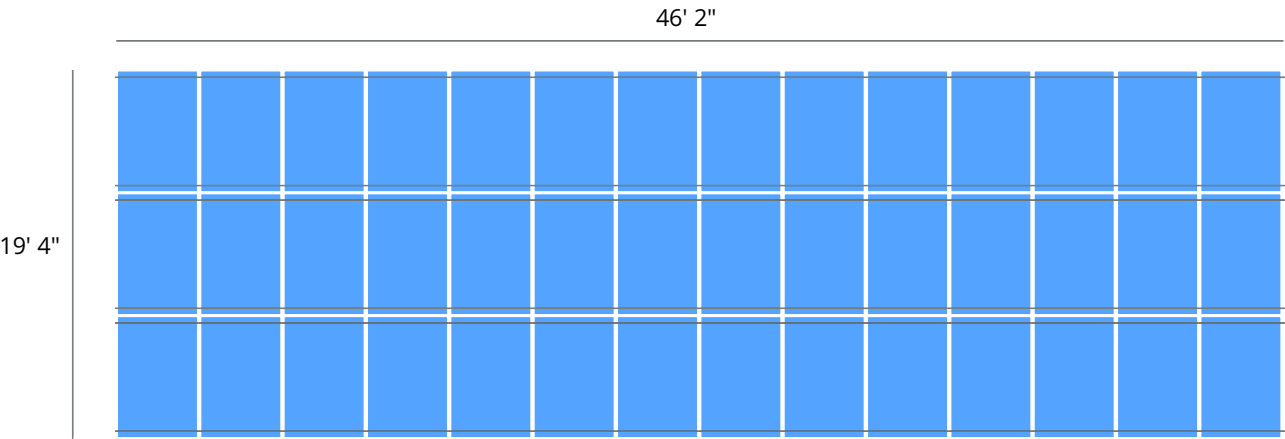
Roof Zone	Down	Uplift	Lateral
1	164.00	-101.00	0.00
2	164.00	-191.00	0.00
3	164.00	-310.00	0.00

System Weight

TOTAL WEIGHT	2309 lbs
WEIGHT/ATTACHMENT	32.1 lbs
DISTRIBUTED WEIGHT	2.6 psf
RACKING WEIGHT	235.4 lbs

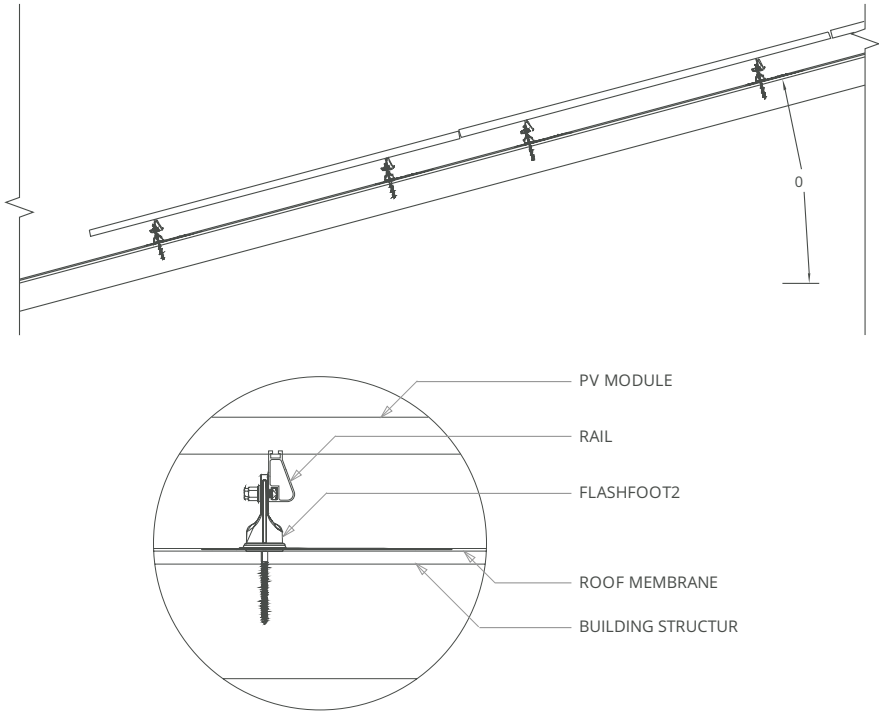
Array Details

Array	Cols	Rows	Orientation	Row Length	Provided Rails	Attachments	Clamps	Splices
A	14	3	PORTRAIT	46' 2"	282'[6 x 14', 18 x 11']	72	90	18

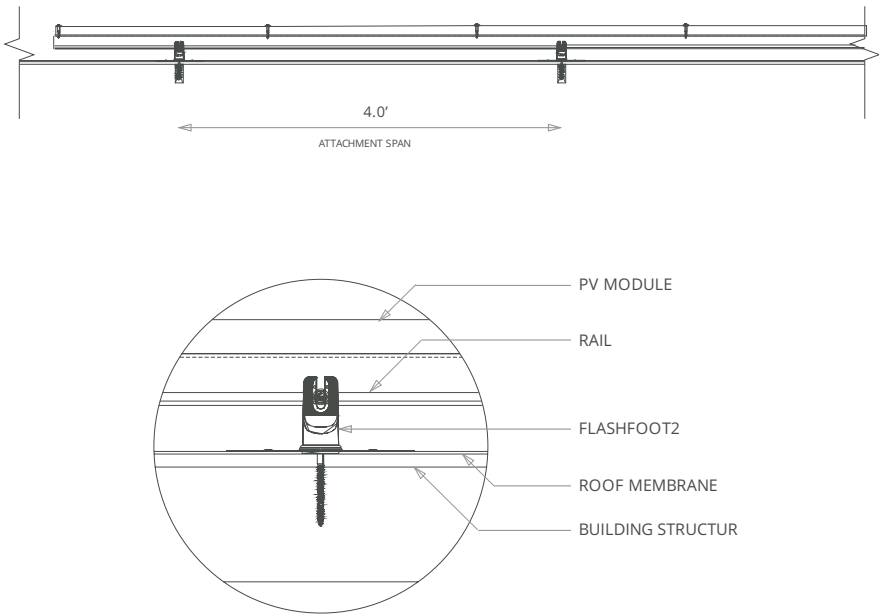


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Side View (Portrait)

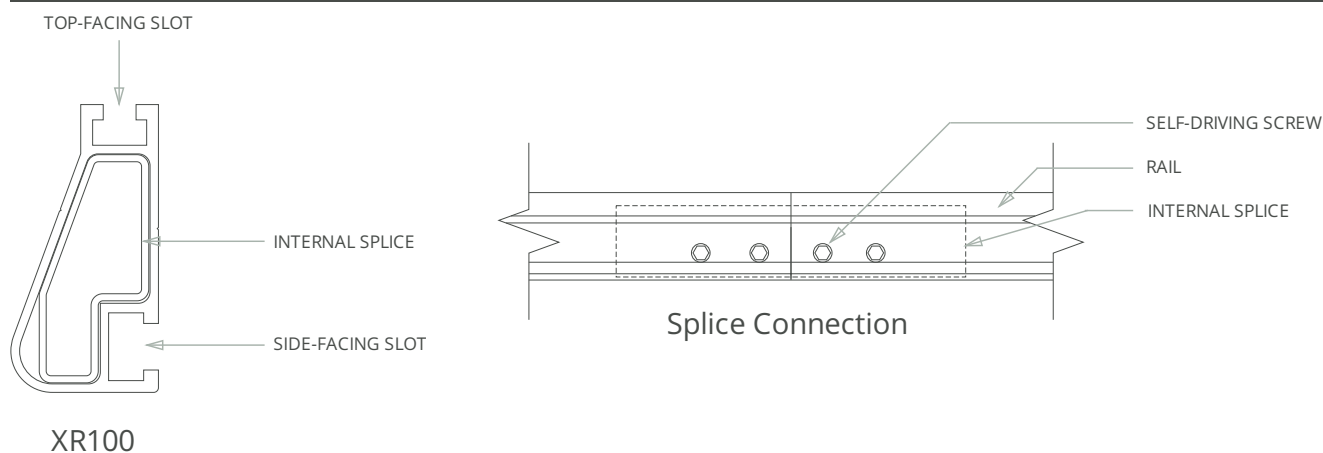


Front View (Portrait)

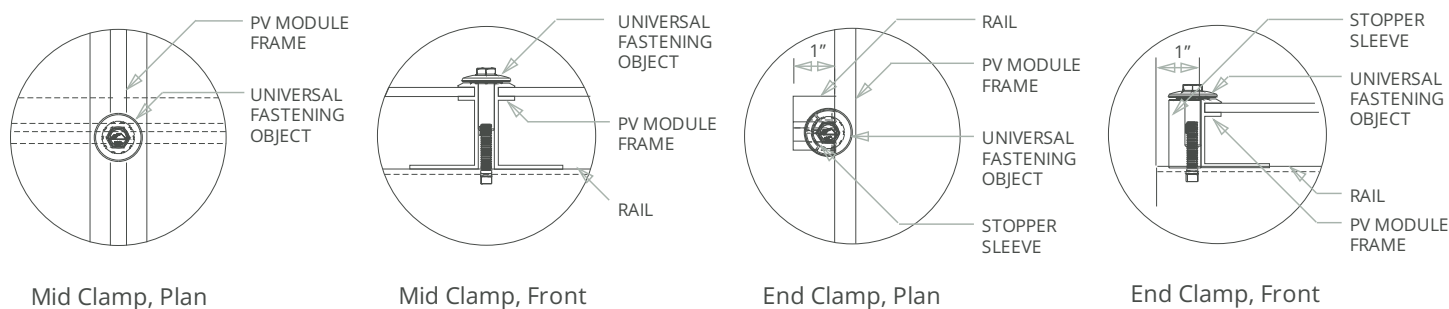


Note: The images displayed in this report are meant to represent one portion of the array. The use of a break line indicates that the array may continue on beyond that point.

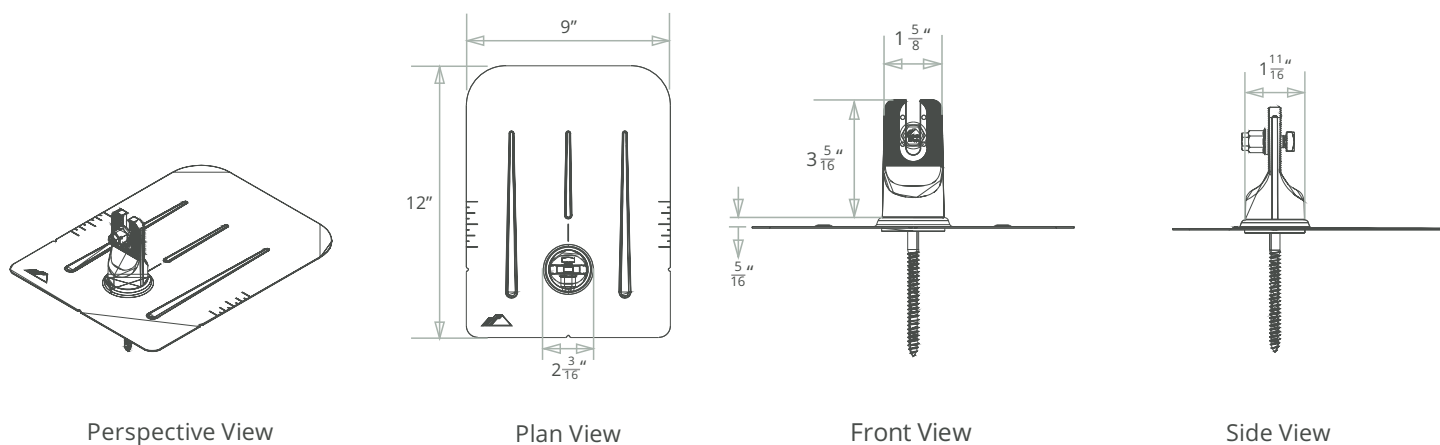
Splice Detail



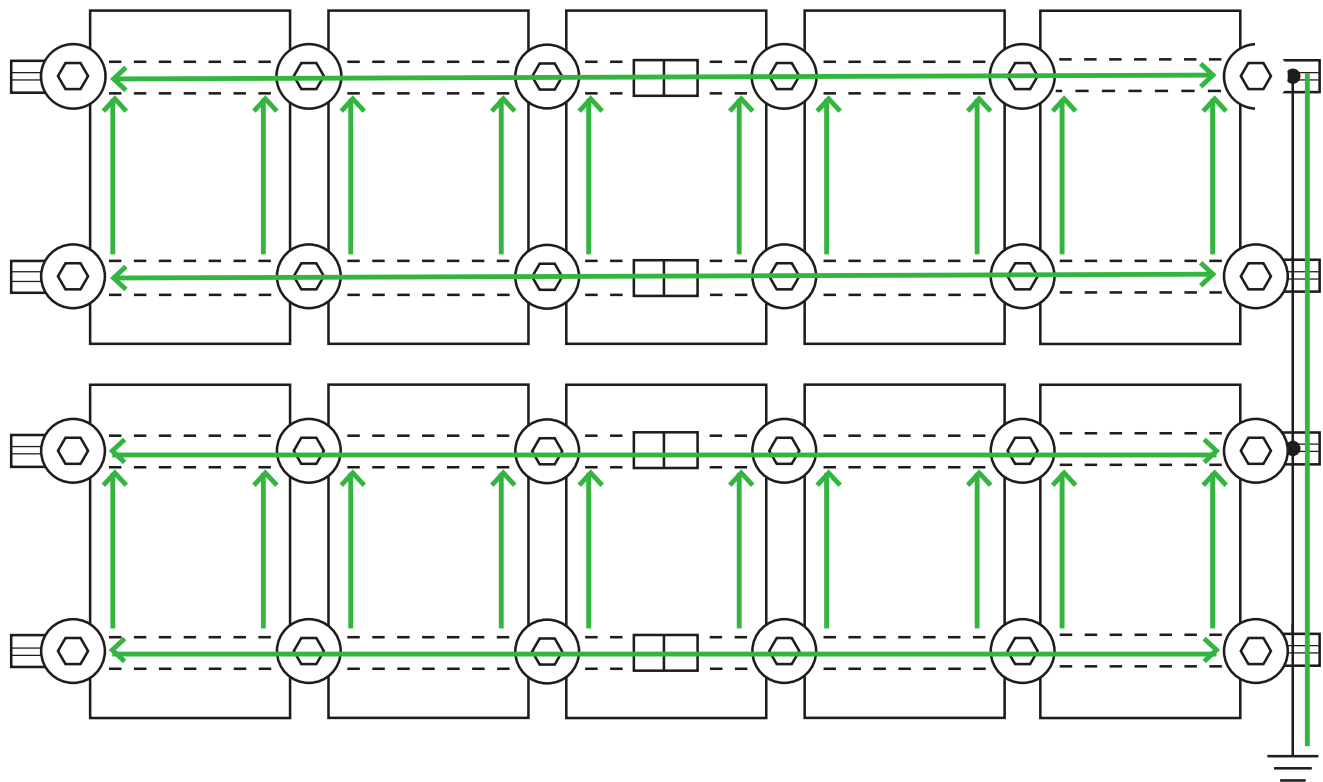
Clamp Detail



FlashFoot2 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.

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Bill of Materials

GROUP	PART	DESCRIPTION	TOTAL QTY
RAILS & SPLICES	XR-100-132A	XR100, Rail 132" (11 Feet) Clear	18
	XR-100-168A	XR100, Rail 168" (14 Feet) Clear	6
	XR-100-SPLC-BD	Kit, XR100 Bonded Splice	18
CLAMPS & GROUNDING	UFO-CL-001	Kit, 4pcs, Universal Module Clamp	23
	GD-LUG-003	Kit, 2pcs, Grounding Lug, Low Profile	2
	UFO-STP-40MM	Kit, 4pcs, Stopper Sleeve, 40MM, Clear	3
ATTACHMENTS	FM-FF2-001	Kit, 4pcs, FlashFoot 2 (Mill)	18
	FM-SQ-BHW	Kit, 4pcs, Square-Bolt Bonding Attachment Hardware	18
ACCESSORIES	29-4000-077	Wire Clips, Molded PVC Black, Polybag 20	5
	XR-100-CAP	Kit, End Cap XR100 (10 sets per bag)	1
	MI-BHW	Kit, 1/4 x 3/4 Microinverter Bonding Hardware, T-Bolt	42