

Project Details

Name Nelson Garage
Module Helios USA: 6T 255
Dimensions 39.0" x 66.1" x 1.6"
Tilt 30°

Date 2017-02-23
Total Modules 24
Total Watts 6,120
Attachment Pts 42

Load Assumptions

Wind Exposure B
Wind Speed 100 mph
Ground Snow Load 30 psf
Attachment Spacing 4.0 ft

Building Details

Building Height: 20'
Roof Slope 30 °
Risk Category I

Engineering Validation

RAILS

	XR10 ○	XR100 ⊙	XR1000 ○
TOTAL PROJECT COST		\$1,365	
MAX SPAN [portrait]			
Zone 1	4' 3"	6' 3"	8' 2"
Zone 2	4' 3"	6' 3"	8' 2"
Zone 3	4' 3"	6' 3"	8' 2"
MAX CANTILEVER [portrait]			
Zone 1	1' 8"	2' 6"	3' 3"
Zone 2	1' 8"	2' 6"	3' 3"
Zone 3	1' 8"	2' 6"	3' 3"

LOADS

ZONES (portrait)	DOWN ↓ (lbs)	UPLIFT ↑ (lbs)	LATERAL ↔ (lbs)
Zone 1	203.0	-90.0	88.0
Zone 2	203.0	-106.0	88.0
Zone 3	203.0	-106.0	88.0

SubArray Information

Columns	Rows	Orientation	Required Rail	Provided Rail	Attach Pts	UFO Clamps	Splices
8	1	Portrait	26' 4"	1 set of 28.0' [2 x 14']	14	18	2
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Weight Details

Total Weight

1320 lbs

Weight / Attachment

31.4 lbs

Distributed Weight

3.0 psf

1320 lbs	31.4 lbs	3.0 psf
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Bill of Materials

Part No.	Description	Spares	Qty.	MSRP Ea	Price
XR-100-168A	XR100, Rail 168" (14 Feet) Clear	0	12	\$66.42	\$797.04
FM-LFT-003	Kit, 4pcs, Slotted L-Foot, Mill	0	11	\$10.00	\$110.00
XR-100-SPLC-BD	Kit, XR100 Bonded Splice	0	6	\$8.00	\$48.00
29-4000-077	Wire Clips, Molded PVC Black, Polybag 20	0	3	\$14.00	\$42.00
XR-100-CAP	Kit, End Cap XR100 (10 sets per bag)	0	1	\$14.00	\$14.00
UFO-CL-001	Kit, 4pcs, Universal Module Clamp	0	14	\$14.00	\$196.00
FM-SQ-BHW	Kit, 4pcs, Square-Bolt Bonding Attachment Hardware	0	11	\$8.00	\$88.00
MI-BHW	Kit, 1/4 x 3/4 Microinverter Bonding Hardware, T-Bolt	0	12	\$3.00	\$36.00
GD-LUG-003	Kit, 2pcs, Grounding Lug, Low Profile	0	2	\$14.00	\$28.00
UFO-STP-40MM	Kit, 4pcs, Stopper Sleeve, 40MM, Clear	0	3	\$2.00	\$6.00
				Total Price Ext	\$1,365.04
				Price/ Watt	\$0.22
				Total Weight	129 lbs

US prices only

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