UES copy

City of Belle Isle Job Site Card Electrical PERMIT 2019-08-008

PERMIT MUST BE POSTED ON SITE - A permit expires in 6 months if approved inspections are not recorded /scheduled within that time frame. You are responsible for scheduling and keeping track of all your inspections -

Permit Number: 2019- 08-008
Site Address: 3738 Rothbury Dr 32812
Class: □ Residential **Subdivision:**
Description of Work: **Electrical –** SOLAR PHOTOVOLTAIC SYSTEM ROOF MOUNT.

Issue Date: 08/05/2019
Parcel #: 20-23-30-9375-00-490

Issued: ALL AMERICAN SOLAR LLC
Name: LORENZ, STEVEN MICHAEL
Business Phone: 407 879-5803
Contractor License: CVC56961
Payment Date & Method: 8 / 9 / 2019 ■ Picked up or sent by BEN A. □ Emailed
□ Visa □ Master Card □ Amex □ Discover ■ Check / Money Order # 3658

Schedule Inspections via Email at: BIDscheduling@universalengineering.com BY 3:00 PM CUT OFF TIME
Inspection Results Will Be Sent Out the Following Business Day

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IYOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

ELECTRICAL	INSPECTOR	DATE	COMMENTS
300 Temp Pole			
310 TUG			
320 Underground			
330 Rough			
340 Footer Steel Bonding			
350 Pool Light			
360 PrePower			
370 Meter ReSet			
380 Final			

Inspection requests are to be emailed to BIDscheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 3pm. Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed.
Universal Engineering Sciences - 3532 Maggie Blvd., Orlando, FL 32811 Tel 407-581-8161 Fax 407-581-0313
www.universalengineering.com

City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

RECEIVED AUG - 1 2019 in person

APPLICATION FOR ELECTRICAL PERMIT

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

DATE OF APPLICATION: 8-1-19 **PERMIT NUMBER** 2019-08-008

The undersigned hereby applies for a permit to make electrical installations as indicated below. PLEASE PRINT

Project Address 3738 Rothbury Dr, Belle Isle FL 32809 (32812)

Property Owner David Tuggle Phone 407-927-2203

Property Owner's Mailing Address 3738 Rothbury Dr City Belle Isle

State ______ Zip Code ______ **Parcel Id Number:** 20 23 30 9375 00 490

To obtain this information, please visit http://www.ocpafl.org/Searches/ParcelSearch.aspx

Class of Building: Old ☐ New ☐ **Type of Building:** Residential ☐ Commercial ☐ Other ☐

Type of Work: New ☐ Alteration ☐ Addition ☐ Repair ☐ Low Voltage New ☐ Existing ☐

Check 3658

PAID 8-9-19

PAID

INDICATE THE QUANTITY OF ALL EQUIPMENT TO BE INSTALLED

Dishwasher ____	Exhaust Fan ____	Disposal ____	Water Heater ____
Hood Fan ____	Dryer ____	Paddle Fan ____	Outlets ____
Fixtures ____	Spa ____	Pool ____	Switches ____
Electric Signs ____	Meter Reset ____	Low Voltage ____	Stoves ____
Pumps ____	Motors ____	Air Conditioning (tons) ____	Furnace (KW) ____

Temporary Construction Pole ________ **One (1) New Meter Service** ________ Amperage/Voltage/Phase

Meter Service Upgrade from ________ to ________ = ________
Amperage/Voltage/Phase — Amperage/Voltage/Phase — Difference in Size

Relocate Existing Meter Service (No Service Size Change) ________

Other: Solar photovoltaic system Roof mount.

☐ **PERMIT FEE BASED ON METER SERVICE SIZE SCHEDULE** .... $ ________
(IF NO METER SERVICE WORK BEING DONE, USE VALUATION OF JOB FOR PERMIT FEE)

☐ **VALUATION OF JOB** (VALUATION OF ALL MATERIALS, LABOR, AND FIXTURES INSTALLED $ 31,093 ✓

Building Official: [signature] Date 8/2/19

Verified Contractor's Licenses & Insurance are on file (initials) Date 8-1-19

Permit Fee = $ 192
Review Fee = $ 96
1% BCAIB Fee = $ 2.88
1.5% DCA Fee = $ 4.32
TOTAL Permit = $ 295.20

1st 1K 37
5x31 155
192
96
288

I hereby certify that the above is true and correct to the best of my knowledge.

I hereby make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances.

LICENSE HOLDER SIGNATURE [signature] poa for Steven Lorenz LICENSE # CVC56961

LICENSE HOLDER NAME Steven Lorenz COMPANY NAME All American Solar LLC

Street Address 1060 E Industrial Dr Suite A

City Orange City State FL Zip Code 32763 Phone Number 407 879-5803

Email Address Finance@AllAmericanSolarLLC.com

NOTE: The Building Permit Number is required if the Electrical Installation is associated with any construction or alteration where a Building Permit has been issued.

Building Permit Number ________

153478

CITY OF BELLE ISLE, FLORIDA

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

POWER OF ATTORNEY

Date: 08/01/2016 Permit #: 2019-08-008

I hereby name and appoint Ben Adams (print name) of

All American Solar LLC (company name) to be my lawful attorney-in-fact to act for

me and apply to the City of Belle Isle Building Department for a Solar Photovoltaic (type of permit) permit

for work to be performed at the following location:

3738 Rothbury Dr Belle Isle, FL 32812 (street address), Belle Isle, FL ☐ 32809 ☒ 32812 and

to sign my name and do all things necessary to this appointment.

Certified Contractor's Printed Name: Steven Lorenz

License Number: CVC56961

Certified Contractor's Signature: [signature]

The foregoing instrument was acknowledged before me this 31st days of July of 2019

by Steven Lorenz who is personally known to me or who produced

_____ as identification and who did not take an oath.

State of Florida
County of Orange

Shawn M Bing
Notary Public, Orange County, Florida

SHAWN M. BING
MY COMMISSION # GG 317953
EXPIRES: July 29, 2023
Bonded Thru Notary Public Underwriters

AFTER RECORDING – RETURN TO:
All American Solar LLC
1060 E. Industrial Dr Ste A
Orange City, FL 32763
PERMIT NUMBER: 2019-08-008

DOC# 20190489772
08/07/2019 03:24:38 PM Page 1 of 1
Rec Fee: $10.00
Phil Diamond, Comptroller
Orange County, FL
IP - Ret To: ALL AMERICAN SOLAR LLC

NOTICE OF COMMENCEMENT

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. DESCRIPTION OF PROPERTY (Legal description of the property & street address, if available) TAX FOLIO NO.: 20-23-30-9375-00-490

SUBDIVISION | BLOCK | TRACT | LOT | BLDG | UNIT
Windsor Place Phase 2 | | | 30/81 Lot 49 | |

2. GENERAL DESCRIPTION OF IMPROVEMENT: SOLAR

3. OWNER INFORMATION OR LESSEE INFORMATION IF THE LESSEE CONTRACTED FOR THE IMPROVEMENT:
a. Name and address: David Tuggle 3738 Rothbury Dr Orlando FL 32812
b. Interest in property: Owner
c. Name and address of fee simple titleholder (if different from Owner listed above):

4. a. CONTRACTOR'S NAME: Steven Lorenz of All American Solar LLC
Contractor's address: 1060 E Industrial Dr Suite A Orange City FL 32763 b. Phone number: 954 295 8190

5. SURETY (if applicable, a copy of the payment bond is attached):
a. Name and address: N/A
b. Phone number: N/A c. Amount of bond: $ N/A

6. a. LENDER'S NAME: Service Finance Company
Lender's address: 555 S Federal Hwy #200 Boca Raton 33432 b. Phone number: 866-254-0497

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes:
a. Name and address: N/A
b. Phone numbers of designated persons: N/A

8. a. In addition to himself or herself, Owner designates N/A of N/A to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.
b. Phone number of person or entity designated by Owner: N/A

9. Expiration date of notice of commencement (the expiration date will be 1 year from the date of recording unless a different date is specified): _____, 20__

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

(Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager)

(Print Name and Provide Signatory's Title/Office)

State of FLORIDA
County of Orange

The foregoing instrument was acknowledged before me this 1st day of August, 20 19
by David Tuggle, as owner.
for David Tuggle
(name of party on behalf of whom instrument was executed)

Personally Known ____ or Produced Identification ✓ Type of Identification Produced Drivers License.

BEN ADAMS
MY COMMISSION # FF915794
EXPIRES September 07 2019
(407) 398-0153 FloridaNotaryService.com

(Signature of Notary Public)
(Print, Type, or Stamp Commissioned Name of Notary Public)

Rev. 10-15-12

State of FLORIDA, County of ORANGE
I hereby certify that this is a true copy of the document recorded in the Official Records
PHIL DIAMOND, COMPTROLLER
BY: _____ D.C.
DATED: 8/7/19

COUNTY COMPTROLLER SEAL ORANGE COUNTY FLORIDA

Property Record - 20-23-30-9375-00-490

Orange County Property Appraiser • http://www.ocpafl.org

Property Summary as of 07/31/2019

Property Name
3738 Rothbury Dr

Names
Tuggle David

Municipality
BI - Belle Isle

Property Use
0103 - Single Fam Class III

Mailing Address
3738 Rothbury Dr
Belle Isle, FL 32812-2213

Physical Address
3738 Rothbury Dr
Orlando, FL 32812

QR Code For Mobile Phone

302320937500490 08/24/2006

Value and Taxes

Historical Value and Tax Benefits

Tax Year Values		Land		Building(s)		Feature(s)	Market Value	Assessed Value
2018	✓ MKT	$75,000	+	$196,424	+	$11,000	= $282,424 (6.8%)	**$227,563** (2.1%)
2017	✓ MKT	$65,000	+	$191,343	+	$8,000	= $264,343 (2.2%)	**$222,882** (2.1%)
2016	✓ MKT	$65,000	+	$185,623	+	$8,000	= $258,623 (4.8%)	**$218,298** (.70%)
2015	✓ MKT	$65,000	+	$170,793	+	$11,000	= $246,793	**$216,781**

GODWIN ENGINEERING AND DESIGN, LLC

8378 Foxtail Loop, Pensacola, FL 32526 | (850)712-4219 | chad@godwineng.com

July 19, 2019

To: City of Belle Isle Building Department
1600 Nela Avenue
Belle Isle, FL 32809

Re: Tuggle – Residential PV Roof Mount Installation
3738 Rothbury Drive
Belle Isle, FL 32812

Plan Reviewer,

This letter is regarding the installation of a new roof mounted Solar PV System on the existing residential structure at the address above. I have reviewed the attachment plan and have determined that the roof mounted PV system is in compliance with the applicable sections of the following Codes as amended and adopted by the jurisdiction:

2017 Florida Building Code 6th Edition, FBC
ASCE 7 Min. Design Loads for Buildings & Other Structures

Per 2017 FBC, the Roof Mounted PV system will be subject to the following design criteria:
Design Wind Speed(V_{ult}) - 140mph 3 sec gust, Exposure Category – B

The PV System consist of the modules, railing, and connection hardware. The system will add a dead load of approximately 3 psf to the roof.

The existing roof covering is Asphalt Shingle with min. ½" plywood decking and 2" x 4" roof trusses 24" O.C. The roofing, decking, and roof trusses are in good condition. The existing structure will be adequate for supporting the additional PV dead load and wind loads.

The securement method of the PV system is to be flush mounted to the asphalt shingle roof with the Ironridge railing and flashings/attachments. The attachments can be attached up to 72" apart. The mounts should be staggered, where possible, to allow distribution of the design loads evenly to the structure. The mounts shall be installed with a min. 5/16" lag screw with minimum 2-5/16" thread length.

Please see attached documents and contact me should you have any questions.

Sincerely,

D. Chad Godwin, PE 81360
Exp. 02/28/2021

PO BU1970
Reviewed for Code Compliance
Universal Engineering Sciences
8/2/19

DONNIE C. GODWIN
LICENSE
No. 81360
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7/30/19

BUILDING DESIGN PROPERTIES	SYMBOL	VALUE	UNIT	
BASIC WIND SPEED	V	140	mph	Figure 26.5-1C, page 249a
ROOF PITCH	θ	> 7 to 27	degrees	
MEAN ROOF HEIGHT	h	15	ft	
ROOF SETBACK	a	3	ft	
ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE	λ	1.00		Figure 30.5-1, pg 347
TOPIGRAPHICAL FACTOR	K_{zt}	1		Figure 26.8-1, pg 252
EXPOSURE		B		
EFFECTIVE WIND AREA		10	sf	

VARIABLE DESCRIPTION	SYMBOL	ZONE 1 VALUE	ZONE 2 VALUE	ZONE 3 VALUE	UNIT	REFERENCE: ASCE 7-10
NET DESIGN WIND PRESSURE (UPLIFT)	P_{net30}	-32.3	-56.2	-83.1	psf	Figure 30.5-1, pg 346
NET DESIGN WIND PRESSURE (DOWN)	P_{net30}	20.3	20.3	20.3	psf	Figure 30.5-1, pg 346
NET DESIGN WIND PRESSURE (UP)	$P_{net\ up}$	**-32.30**	**-56.20**	**-83.10**	psf	**Calculation:** $P_{net\ up} = \lambda \times K_{zt} \times P_{net30}$
NET DESIGN WIND PRESSURE (DOWN)	$P_{net\ down}$	**20.30**	**20.30**	**20.30**	psf	**Calculation:** $P_{net\ down} = \lambda \times K_{zt} \times P_{net30}$

DESCRIPTION	SYMBOL	VALUE	VALUE	VALUE	UNIT	
DEAD LOAD	D	3	3	3	psf	
SNOW LOAD	S	0	0	0	psf	
DESIGN WIND LOAD	W	-32.30	-56.20	-83.10	psf	
ASD DESIGN LOAD (*UPLIFT*)	P_{design}	**-22.70**	**-41.21**	**-62.05**	**psf**	**Calculation:** P_{design} = D+SQRT(0.6)W (asd)
DOWNFORCE CASE 1	P_{design}	**3**	**3**	**3**	**psf**	**Calculation:** P_{design} = 1.0D+1.0S
DOWNFORCE CASE 2	P_{design}	**23.30**	**23.30**	**23.30**	**psf**	**Calculation:** P_{design} = 1.0D+1.0W
DOWNFORCE CASE 3	P_{design}	**18.23**	**18.23**	**18.23**	**psf**	**Calculation:** P_{design} = 1.0D+0.75S+0.75W

DESIGN FACTORS & CALCULATIONS FOR THE USE OF L-FOOT TO ROOF TRUSS

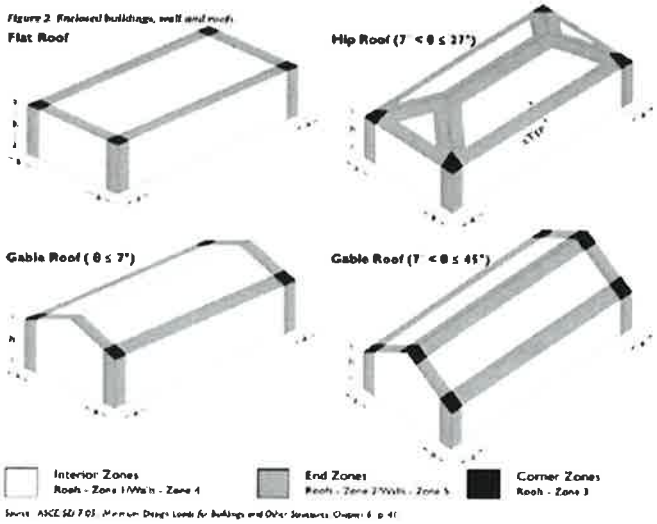
DESCRIPTION	SYMBOL	VALUE	VALUE	VALUE	UNIT	
MODULE WIDTH	B	3.28	3.28	3.28	ft	
TOTAL DESIGN LOAD (*UPLIFT*)	P	-22.70	-41.21	-62.05	psf	
TOTAL DESIGN LOAD (*DOWNFORCE*)	P	23.30	23.30	23.30	psf	
DISTRIBUTED LOAD (UPLIFT)	w	**-37.22**	**-67.58**	**-101.75**	**plf**	**Calculation:** w = PB/2 *Assumes 2 rails per row
DISTRIBUTED LOAD (DOWNFORCE)	w	**38.21**	**38.21**	**38.21**	**plf**	**Calculation:** w = PB/2 *Assumes 2 rails per row
RAIL SPAN BETWEEN ANCHORS POINTS	L	6	6	6	ft	
POINT LOAD (*UPLIFT*)	R	**-223.33**	**-405.49**	**-610.52**	**lbs**	**Calculation:** R = PLB/2 *Assumes 2 rails per row
POINT LOAD (*DOWNFORCE*)	R	**229.27**	**229.27**	**229.27**	**lbs**	**Calculation:** R = PLB/2 *Assumes 2 rails per row

L-FOOT CONNECTED BY LAG SCREW TO ROOF TRUSS/ RAFTER						
Specific Gravity, Rafter	G	0.55	0.55	0.55		Table 11.2A, NDS 2005, page 68 (Southern Pine)
Min. Dia. of Lag Screw, 5/16	D	0.3125	0.3125	0.3125	in	
Pullout Value of	W	306.87	306.87	306.87	lbs/in	$W=1800\ G^{3/2}\ D^{3/4}$
# of Lag screws		1	1	1		
Thread Length	T_d	2.3125	2.3125	2.3125	in	Table L2, NDS 2005
Design Pullout Value per Mount	W_t	709.64	709.636	709.636		$W_t = W * \#\ of\ Lags * T_d$
SAFTEY FACTOR	SF	**3.18**	**1.75**	**1.16**		**Calculation:** $SF=W_t/R$ (Uplift)

Step 3: Determine *Roof Zone* (continued)

Using *Roof Zone Setback Length*, a, determine the roof zone locations according to your roof type, gable, hip or monoslope. Determine in which roof zone your pv system is located: *Zone* 1, 2, or 3 according to Figure 2

Figure 2 Enclosed buildings, wall and roof



Source: ASCE 7-10, Minimum Design Loads for Buildings and Other Structures, Chapter 6, p. 41

Inverter Type:	Enphase
PV Panel:	(31) Silfab 310W
Racking:	Iron Ridge
Total Wattage:	9,610W
Roof Type:	Composition Shingles
Wind Load:	7 to 27 Deg
Fastener Type:	Use 5/16" Dia 4" Lags

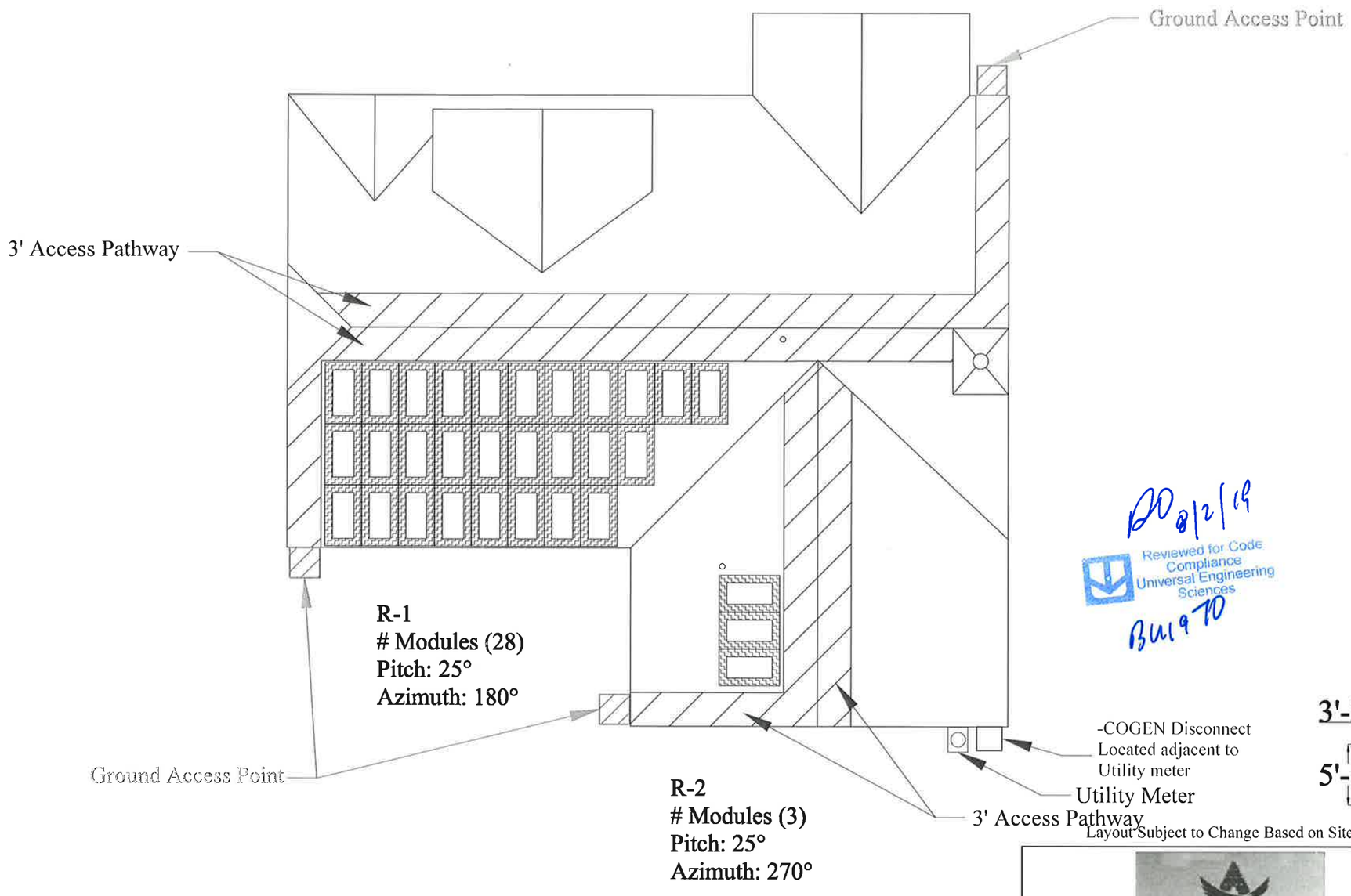
Sheet Index

General Notes:
-Enphase IQ7 Micro Inverter
are located on roof behind each module.
-First responder access maintained and
from adjacent roof.
-Wire run from array to connection is 40 feet.

DONNIE C. GODWIN LICENSE No. 81360 STATE OF FLORIDA PROFESSIONAL ENGINEER 7/30/19

Godwin Engineering and
Design, LLC
8378 Foxtail Loop
Pensacola, FL 32526
D. Chad Godwin, PE
Chad@godwineng.com

FRONT OF HOUSE



Layout Subject to Change Based on Site Conditions

Reviewed for Code Compliance Universal Engineering Sciences 8/12/19 BU1970

Legend

- First responder access
- Utility Meter
- PV Disconnect
- Chimney
- Satellite
- Vent Pipe

Meets Florida Fire Prevention Code

Represents all Fire Clearance including Alternative methods

1st Responder Access minimum of 36" unobstructed as per Section R324 of the 2015 IRC

2017 FL Residential Code,6th Edition (2015 International Residential Code - 2nd Printing modified by the FL Building Standards and Codes 2017 Uniform Code Supplement), 2015 International Energy Conservation Code, County of Orange Code, 2014 National Electric Code.

Customer Info:

David Tuggle
3738 Rothbury Dr,
Belle Isle, FL
32812

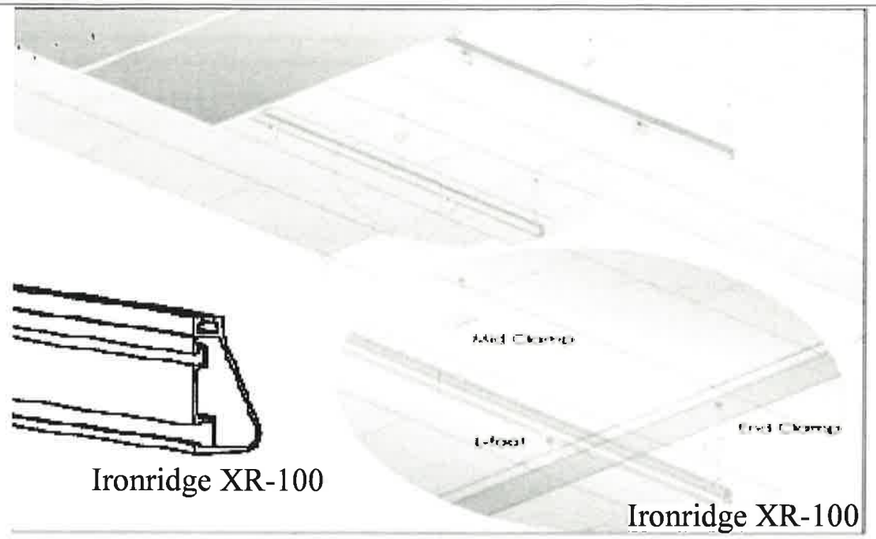
All American Solar

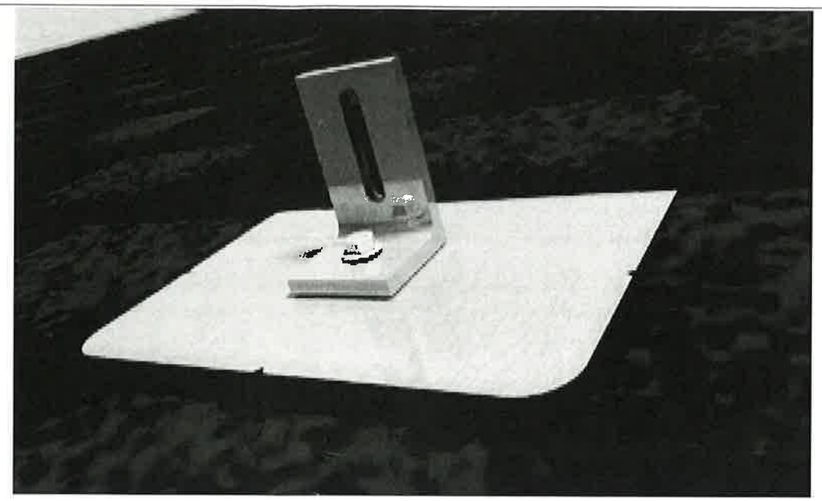
1060 East Industrial Dr, Suite A
Orange City, FL 32763
954-295-8190

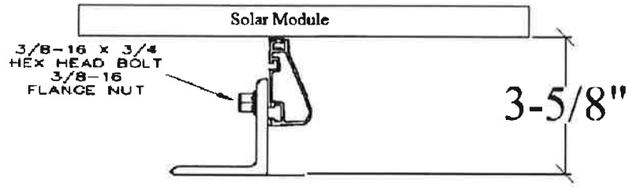
Date:	7.19.19
Drawn by:	TP
Checked by:	·
Rev #: 00	
Rev Date:	
Page:	S-1

N

Compass for Aerial







General Notes:
- L Feet are secured to roof rafters. @ 72" O.C. using 5/16" x 4" stainless steel Lag bolts.
- Subject roof has One layer.
- All penetrations are sealed and flashed.

Roof Section	Pitch	Roof Rafter and Spacing	Overhang	Notes:
R1-R2	6/12	2"x4" @ 24 O.C.	20"	Truss

Designed as per ASCE7-10

Modules mounted flush to roof no higher than 6" above surface.

Inverter Type:	Enphase
PV Panel:	(31) Silfab 310W
Racking:	Iron Ridge
Total Wattage:	9,610W
Roof Type:	Composition Shingles
Wind Load:	7 to 27 Deg
Fastener Type:	Use 5/16" Dia 4" Lags

Customer Info:

David Tuggle
3738 Rothbury Dr,
Belle Isle, FL
32812

Godwin Engineering and Design, LLC
8378 Foxtail Loop
Pensacola, FL 32526
D. Chad Godwin, PE
Chad@godwineng.com

DONNIE C. GODWIN LICENSE NO. 81360 STATE OF FLORIDA PROFESSIONAL ENGINEER 7/30/19

All American Solar

1060 East Industrial Dr, Suite A
Orange City, FL 32763
954-295-8190

Date:	7.19.19
Drawn by:	TP
Checked by:	·
Rev #: 00	
Rev Date:	
Page:	S-2

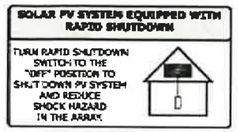


Figure 690.56(C)(1)(a) Label for PV Systems that Shut down the array and the conductors leaving the array

Enphase Output Ckt Per String	
To Overcurrent Protection Device	
AC Max Output Current	16
AC Max Output Current * 1.25%	20
Overcurrent Protection (A)	20
No. of Current Carrying Cond	<4
Conductor Gauge (AWG)	10
Enphase Total Output Ckt	
AC Max Output Current	31
AC Max Output Current * 1.25%	38.8
Overcurrent Protection (A)	40
No. of Current Carrying Cond	<4
Conductor Gauge (AWG)	8

Photovoltaics:
(31) Silfab-SLA-M-310

Inverters
(31) Enphase IQ7 Micro Inverters

Circuits:
(1) circuit of (15) Modules
(1) circuit of (16) Modules
Maximum Inverters Per 20A Circuit (16)

NEMA 3R
Junction Box
Black - L1
Red - L2
Green - Ground

Engage Cable

#12 UF Romex for Home runs under 100'
#10 UF Romex for Home runs over 100'
(1) Line 1
(1) Line 2
Per Circuit
#8 UF Romex
(1) EGC

Solardeck Typ

Roof

⚠WARNING⚠
ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

PHOTOVOLTAIC SYSTEM
⚠ AC DISCONNECT ⚠
OPERATING VOLTAGE 240 VOLTS
OPERATING CURRENT 31 AMPS

Meter

Line Side Tap

Main Distribution Panel
150A Main

Reviewed for Code Compliance
Universal Engineering Sciences

PHOTOVOLTAIC SYSTEM
⚠ AC DISCONNECT ⚠
RATED AC OUTPUT CURRENT A
NOMINAL OPERATING AC VOLTAGE V

Enphase Combiner Box

(1) - 20A Breaker
Per Circuit

Disconnect

60A Service Rated
Fused Disconnect
Neutral to Ground Bond
AC Disconnect
40A Fuse

(1)#8 AWG EGC & GEC

AC Distribution Panel
or Sub Panel

⚠WARNING
INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS OVERCURRENT DEVICE

#8 AWG THWN
(1) Line 1
(1) Line 2
(1) Neutral
#8 (1) EGC
in @ least 3/4" Conduit Typically

#6 AWG THWN
(1) Line 1
(1) Line 2
(1) Neutral
in 3/4" Conduit Typically

Refer to NEC 312.8 for Conditions on taps in switch and over current devices Enclosures.
If the conditions are not met a tap box will need to be installed.

Godwin Engineering and Design, LLC
8378 Foxtail Loop
Pensacola, FL 32526
D. Chad Godwin, PE
Chad@godwineng.com

DONNIE C. GODWIN LICENSE No. 81360 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/30/19

All American Solar

1060 East Industrial Dr, Suite A
Orange City, FL 32763
954-295-8190

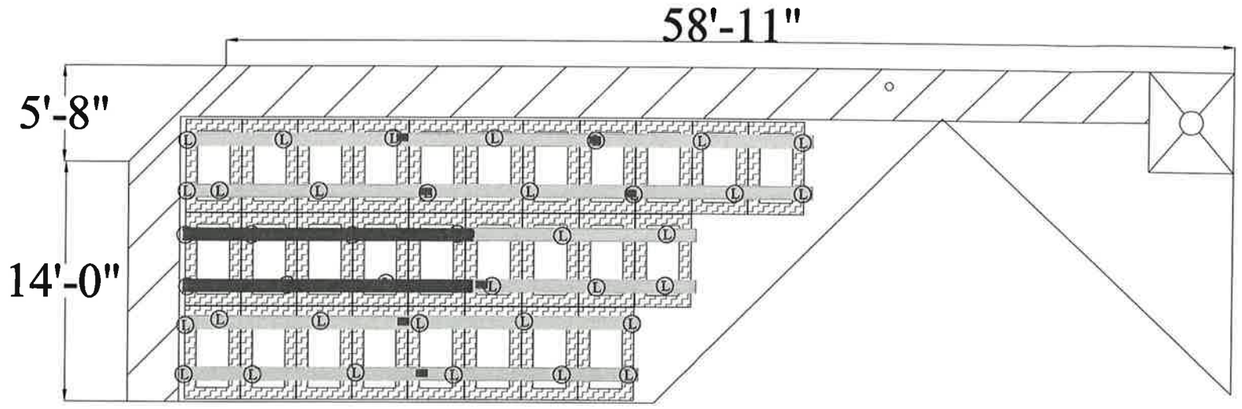
In Case of Emergency Call
All American Solar
at 954-295-8190

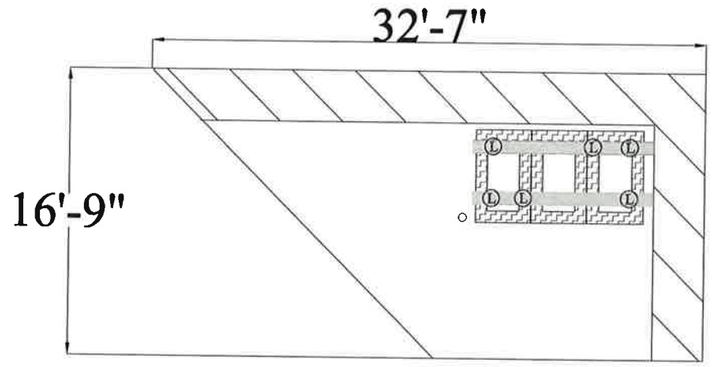
Note:
-All wiring to meet the 2014 NEC and Florida electric codes.
60A Disconnect
-Type of conduit to be determined on site by contractor.

GEC NOTES
Provide a grounding electrode system for an ungrounded system per 690.47(C)(3).
- GEC must be installed per 250.64
- GEC must be continuous un-spliced or irreversibly spliced from inverter to existing service ground system or continuous from the arrays to the existing service ground system.
- If GEC is not continuous from the array to the existing service ground an additional ground system must be provided from the arrays to a grounding electrode per 690.47(D)
- GEC must be min #8 AWG and installed in conduit

Customer Info:
David Tuggle
3738 Rothbury Dr,
Belle Isle, FL
32812

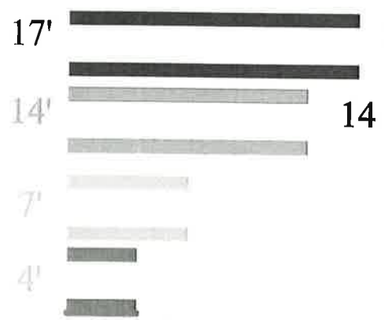
Date:	7.19.19
Drawn by:	TP
Checked by:	·
Rev #: 00	
Rev Date:	
Page:	E-1





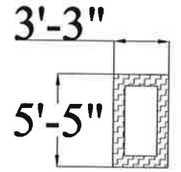
Reviewed for Code Compliance
Universal Engineering Sciences

R-1
Modules (28)
Pitch: 25°
Azimuth: 180°



Splice Bar	8
Flashings	45
UFO's	70
Sleeves/End Caps	16
Solardecks	2
Ground Lugs	4

R-2
Modules (3)
Pitch: 25°
Azimuth: 270°



Max cantilever is 24" as per manufacturer spec.
Max Cantilever = Max Span * $(\frac{1}{3})$=72*$(\frac{1}{3})$=24"

Inverter Type:	Enphase
PV Panel:	(31) Silfab 310W
Racking:	Iron Ridge
Total Wattage:	9,610W
Roof Type:	Composition Shingles
Wind Load:	7 to 27 Deg
Fastener Type:	Use 5/16" Dia 4" Lags

Customer Info:

David Tuggle
3738 Rothbury Dr,
Belle Isle, FL
32812

Godwin Engineering and Design, LLC
8378 Foxtail Loop
Pensacola, FL 32526
D. Chad Godwin, PE
Chad@godwineng.com

DONNIE C. GODWIN LICENSE No. 81360 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/30/19

All American Solar

1060 East Industrial Dr, Suite A
Orange City, FL 32763
954-295-8190

Date:	7.19.19
Drawn by:	TP
Checked by:	.
Rev #: 00	
Rev Date:	
Page:	S-1A

Silfab SOLAR

SLA-M 310 Wp

BAA ARRA · 25 YEAR PRODUCT WARRANTY · AUTOMATED MANUFACTURING · JUST-IN-TIME · DNV-GL TOP PERFORMER · TIER 1 BANKABLE $$$ · HIGH EFFICIENCY

60 Cell
Monocrystalline PV Module

CE · ETL Intertek · ETL · IEC · CEC LISTED · FSEC · Fraunhofer ISE

CHUBB
* Chubb provides error and omission insurance to Silfab Solar Inc.

INDUSTRY LEADING WARRANTY
All our products include an industry leading 25-year product workmanship and 30-year performance warranty.

35+ YEARS OF SOLAR INNOVATION
Leveraging over 35+ years of worldwide experience in the solar industry, Silfab is dedicated to superior manufacturing processes and innovations such as Bifacial and Back Contact technologies, to ensure our partners have the latest in solar innovation.

NORTH AMERICAN QUALITY
Silfab is the largest and most automated solar manufacturer in North America. Utilizing premium quality materials and strict quality control management to deliver the highest efficiency, premium quality PV modules 100% made in North America.

BAA / ARRA COMPLIANT
Silfab panels are designed and manufactured to meet Buy American Act Compliance. The US State Department, US Military and FAA have all entrusted Silfab panels in their solar installations.

LIGHT AND DURABLE
Engineered to accommodate low load bearing structures up to 5400Pa. The light-weight frame is exclusively designed for wide-ranging racking compatibility and durability.

LOWEST DEFECT RATE
Total automation ensures strict quality controls during the entire manufacturing process at our ISO certified facilities. 48.18 ppm as per December 2018.

DOMESTIC PRODUCTION
Silfab is 100% North American which means our customer service is direct, efficient and local. Your solar panels can be delivered anywhere in the Continental USA within days.

AESTHETICALLY PLEASING
All black sleek design doesn't compromise on quality.

PID RESISTANT
PID Resistant due to advanced cell technology and material selection. In accordance to IEC 62804-1

Electrical Specifications		SILFAB SLA Monocrystalline	
Test Conditions		STC	NOCT
Module Power (Pmax)	Wp	310	234
Maximum power voltage (Vpmax)	V	33.05	29.7
Maximum power current (Ipmax)	A	9.38	7.88
Open circuit voltage (Voc)	V	40.25	37.2
Short circuit current (Isc)	A	9.93	8.14
Module efficiency	%	19.0	17.9
Maximum system voltage (VDC)	V	1000	
Series fuse rating	A	20	
Power Tolerance	Wp	-0/+5	

Measurement conditions: STC 1000 W/m2 • AM 1.5 • Temperature 25 °C • NOCT 800 W/m² • AM 1.5 • Measurement uncertainty ≤ 3%
• Sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by -0/+5W.

Temperature Ratings		SILFAB SLA Monocrystalline
Temperature Coefficient Isc	%/K	0.03
Temperature Coefficient Voc	%/K	-0.30
Temperature Coefficient Pmax	%/K	-0.38
NOCT (± 2°C)	°C	45
Operating temperature	°C	-40/+85

Mechanical Properties and Components		SILFAB SLA Monocrystalline
Module weight (± 1 kg)	kg	19
Dimensions (H x L x D; ± 1mm)	mm	1650 x 990 x 38
Maximum surface load (wind/snow)*	N/m²	2400 Pa upward / 5400 Pa downward
Hail impact resistance		ø 25 mm at 83 km/h
Cells		60 - Si monocrystalline - 4 or 5 busbar - 156.75 x 156.75 mm
Glass		3.2 mm high transmittance, tempered, antireflective coating
Backsheet		Multilayer polyester-based
Frame		Anodized Al (Black)
Bypass diodes		3 diodes-45V/12A, IP67/IP68
Cables and connectors (See installation manual)		1200 mm ø 5.7 mm (4 mm2), MC4 compatible

Warranties	SILFAB SLA Monocrystalline
Module product workmanship warranty	25 years**
Linear power performance guarantee	30 years ≥ 97% end of 1st year ≥ 90% end of 12th year ≥ 82% end of 25th year ≥ 80% end of 30th year

Certifications	SILFAB SLA Monocrystalline
Product	ULC ORD C1703, UL 1703, IEC 61215, IEC 61730-1 and IEC 61730-2 Certified. FSEC and CEC listed. IEC 62716 Ammonia Corrosion, IEC 61701:2011 Salt Mist Corrosion Certified UL Fire Rating: Type 2 (Type 1 on request)
Factory	ISO9001:2015

*Please refer to the Safety and installation Manual for mounting specifications.
**12 year extendable to 25 years subject to registration and conditions outlined under "Warranty" at www.silfabsolar.com.

⚠ Warning: Read the installation and User Manual before handling, installing and operating modules.

Third-party generated pan files from Fraunhofer-Institute for Solar Energy Systems ISE are available for download at: www.silfabsolar.com/downloads

TOP PERFORMER 2017 DNV-GL PV MODULE RELIABILITY SCORECARD

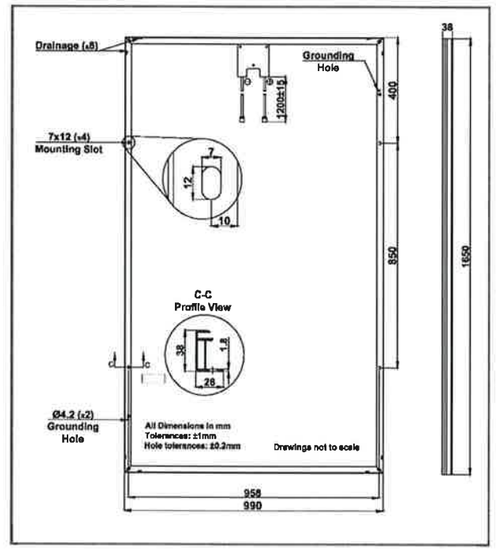
- Modules Per Pallet: 26
- Pallets Per Truck: 36
- Modules Per Truck: 936

Reviewed for Code Compliance Universal Engineering Sciences

Silfab SOLAR

Silfab Solar Inc.
240 Courtneypark Drive East
Mississauga ON L5T 2Y3 Canada
Tel +1 905-255-2501 | Fax +1 905-696-0267
info@silfabsolar.com | www.silfabsolar.com

Silfab Solar Inc.
800 Cornwall Ave
Bellingham WA 98225 USA
Tel +1 360-569-4733

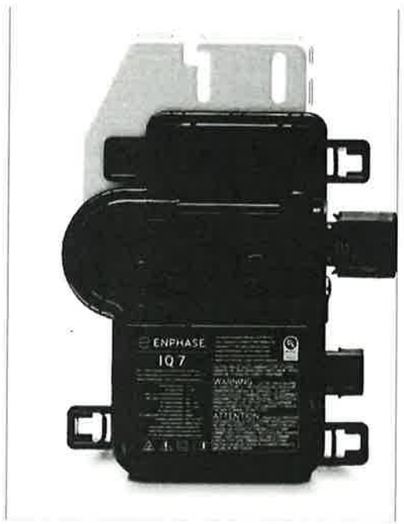


Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7+ Micro is required to support 72-cell modules.

UL CERTIFIED SAFETY US CA E341165

To learn more about Enphase offerings, visit **enphase.com**

ENPHASE.

Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US / IQ7-60-B-US		IQ7PLUS-72-2-US / IQ7PLUS-72-B-US	
Commonly used module pairings[1]	235 W - 350 W +		235 W - 440 W +	
Module compatibility	60-cell PV modules only		60-cell and 72-cell PV modules	
Maximum input DC voltage	48 V		60 V	
Peak power tracking voltage	27 V - 37 V		27 V - 45 V	
Operating range	16 V - 48 V		16 V - 60 V	
Min/Max start voltage	22 V / 48 V		22 V / 60 V	
Max DC short circuit current (module Isc)	15 A		15 A	
Overvoltage class DC port	II		II	
DC port backfeed current	0 A		0 A	
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit			
OUTPUT DATA (AC)	**IQ 7 Microinverter**		**IQ 7+ Microinverter**	
Peak output power	250 VA		295 VA	
Maximum continuous output power	240 VA		290 VA	
Nominal (L-L) voltage/range[2]	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency	60 Hz		60 Hz	
Extended frequency range	47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit[3]	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port	III		III	
AC port backfeed current	0 A		0 A	
Power factor setting	1.0		1.0	
Power factor (adjustable)	0.7 leading ... 0.7 lagging		0.7 leading ... 0.7 lagging	
EFFICIENCY	**@240 V**	**@208 V**	**@240 V**	**@208 V**
Peak CEC efficiency	97.6 %	97.6 %	97.5 %	97.3 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %
MECHANICAL DATA				
Ambient temperature range	-40°C to +65°C			
Relative humidity range	4% to 100% (condensing)			
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)			
Connector type (IQ7-60-B-US & IQ7PLUS-72-B-US)	Friends PV2 (MC4 intermateable). Adaptors for modules with MC4 or UTX connectors: - PV2 to MC4: order ECA-S20-S22 - PV2 to UTX: order ECA-S20-S25			
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)			
Weight	1.08 kg (2.38 lbs)			
Cooling	Natural convection - No fans			
Approved for wet locations	Yes			
Pollution degree	PD3			
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure			
Environmental category / UV exposure rating	NEMA Type 6 / outdoor			
FEATURES				
Communication	Power Line Communication (PLC)			
Monitoring	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy.			
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.			
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.			

1. No enforced DC/AC ratio. See the compatibility calculator at https://enphase.com/en-us/support/module-compatibility.
2. Nominal voltage range can be extended beyond nominal if required by the utility.
3. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit **enphase.com**

ENPHASE.

2018-05-24

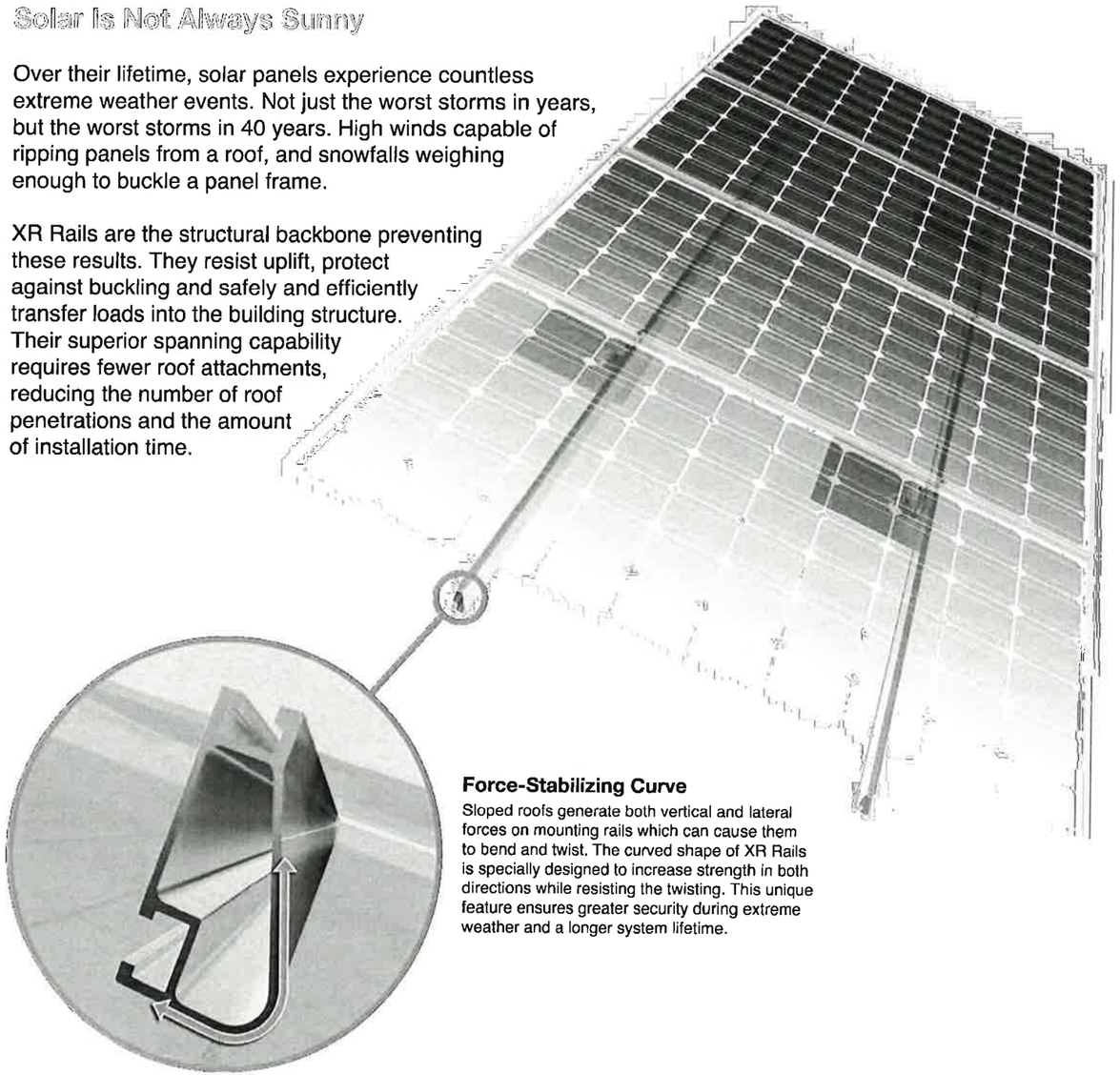
IRONRIDGE

XR Rail Family

Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Compatible with Flat & Pitched Roofs

XR Rails are compatible with FlashFoot and other pitched roof attachments.

IronRidge offers a range of tilt leg options for flat roof mounting applications.

Corrosion-Resistant Materials

All XR Rails are made of 6000-series aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.

XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.

XR10

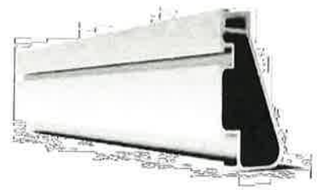
XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves 6 foot spans, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear & black anodized finish
- Internal splices available

XR100

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 8 feet.

- 8' spanning capability
- Heavy load capability
- Clear & black anodized finish
- Internal splices available



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans 12 feet or more for commercial applications.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish
- Internal splices available

Rail Selection

The following table was prepared in compliance with applicable engineering codes and standards. Values are based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope of 7 to 27 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed span tables and certifications.

Load		Rail Span					
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'
None	100	XR10		XR100		XR1000	
	120						
	140						
	160						
10-20	100						
	120						
	140						
	160						
30	100						
	160						
40	100						
	160						
50-70	160						
80-90	160						

RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE SOLAR CONTRACTOR HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

LORENZ, STEVEN MICHAEL

ALL AMERICAN SOLAR LLC
1060 E INDUSTRIAL DR STE A
ORANGE CITY FL 32763

LICENSE NUMBER: CVC56961

EXPIRATION DATE: AUGUST 31, 2020

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

ALLAMER-03 JKING

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 7/29/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
J Meyers Insurance Agency 5003 Old Cheney Hwy Orlando, FL 32807	PHONE (A/C, No, Ext): (407) 273-0230	FAX (A/C, No): (407) 380-3211
	E-MAIL ADDRESS: info@jmeyers.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Colony Insurance Co	39993
INSURED	INSURER B :	
All American Solar LLC 1060 E. Industrial Dr Ste A Orange City, FL 32763	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR			101GL0104932-00	8/14/2018	8/14/2019	DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	X POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DED RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N						PER STATUTE OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) N/A						E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER	CANCELLATION
City of Belle Isle 1600 Nela Avenue Belle Isle, FL 32809	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE

JIMMY PATRONIS
CHIEF FINANICAL OFFICER

STATE OF FLORIDA
DEPARTMENT OF FINANCIAL SERVICES
DIVISION OF WORKERS' COMPENSATION

* * CERTIFICATE OF ELECTION TO BE EXEMPT FROM FLORIDA WORKERS' COMPENSATION LAW * *

CONSTRUCTION INDUSTRY EXEMPTION

This certifies that the individual listed below has elected to be exempt from Florida Workers' Compensation law.

EFFECTIVE DATE: 7/12/2019 **EXPIRATION DATE:** 7/11/2021

PERSON: STEVEN M LORENZ **EMAIL:** STEVELORENZ@ALLAMERICANSOLARLLC.COM

FEIN: 473984047

BUSINESS NAME AND ADDRESS:

ALL AMERICAN SOLAR LLC

1060 EAST INDUSTRIAL DR SUITE A

ORANGE CITY, FL 32763

SCOPE OF BUSINESS OR TRADE:

Plumbing NOC and Drivers

Roofing - All Kinds and Drivers

IMPORTANT: Pursuant to Chapter 440.05(14), F.S., an officer of a corporation who elects exemption from this chapter by filing a certificate of election under this section may not recover benefits or compensation under this chapter. Pursuant to Chapter 440.05(12), F.S., Certificates of election to be exempt... apply only within the scope of the business or trade listed on the notice of election to be exempt. Pursuant to Chapter 440.05(13), F.S., Notices of election to be exempt and certificates of election to be exempt shall be subject to revocation if, at any time after the filing of the notice or the issuance of the certificate, the person named on the notice or certificate no longer meets the requirements of this section for issuance of a certificate. The department shall revoke a certificate at any time for failure of the person named on the certificate to meet the requirements of this section.

All American Solar, LLC
1060 Industrial Dr Unit A & B
Orange City FL 32763

CITY OF ORANGE CITY
LOCAL BUSINESS TAX RECEIPT

LICENSE # LIC-9-15-7934
License Type: Contractor-sub
Amt. Paid: $ 171.25
Stipulations: *** Sign Permits Required for all wall and monument signage (including face changes)

Date Issued: 07/17/2018
Expires: 09/30/2019

Annual Inspections	**$50.00**
Contractor Sub - 0250 - FYa	**$121.25**

All American Solar, LLC
1060 Industrial Dr Unit A & B
Orange City FL 32763