

September 12, 2019

Sigora Solar LLC 1222 Harris Street Charlottesville, VA 22903

Re: Request - Opting Out of Rough-In Inspections

To Whom It May Concern,

This request is in reference to a letter released by the OSFM dated April 23, 2019 and titled "Statewide Uniform Requirement of Inspection Procedures for Solar Photovoltaic Systems Installed on Residential Rooftops." Please let this letter serve as an official request to allow Sigora Solar LLC to follow the procedures listed in Option No. 2 when obtaining electrical/building permits and conducting solar system installations – this option does not involve Rough-In Inspections.

If there are any issues with this request, contact Anjelle Authement via email at <u>anjelle.authement@sigorasolar.com</u> or by phone at 434-962-2687.

Thank you,

Logan Landry

Chief Executive Officer | Sigora Solar



Scott E. Wyssling, PE

76 North Meadowbrook Drive Alpine, UT 84004 office (201) 874-3483 swyssling@wysslingconsulting.com

August 5, 2021

Sigora Solar 1222 Harris Street Charlottesville, VA 22903 SCOTT E WYSSLING, PE Digitally signed by SCOTT E WYSSUND, PE DNC DAUS, SEARL, LARPING, OVEYSaling Consuting, OU+Owner, CN+ GOOTE E WYSSUNG, PE', E-evyssing@wyssingconsuting.com Reason: I am the author of this document Location: your signing location here Dete: 2021-05-06 05-98-22

Re:

Engineering Services Lewis Residence 488 Wood Point Drive, Lillington, NC 12.240 kW System Size

To Whom it May Concern:

Pursuant to your request, we have reviewed the following information regarding solar panel installation on the roof of the above referenced home:

- 1. Site Visit/Verification Form prepared by a Sigora Solar representative identifying specific site information including size and spacing of rafters for the existing roof structure.
- 2. Photographs of the interior and exterior of the roof system identifying existing structural members and their conditions.

Based on the above information we have evaluated the structural capacity of the existing roof system to support the additional loads imposed by the solar panels and have the following comments related to our review and evaluation:

Description of Residence:

The existing residence is typical wood framing construction with the roof system consisting of 2 x 8 dimensional lumber at 24" on center. The attic space is unfinished and photos indicate that there was free access to visually inspect the size and condition of the roof rafters. All wood material utilized for the roof system is assumed to be Doug-Fir #2 or better with standard construction components. The existing roofing material consists of composite asphalt shingles. Photos of the dwelling also indicate that there is a permanent foundation.

A. Loading Criteria Used

- 120 MPH wind loading based on ASCE 7-10 Exposure Category "C" at a slope of 37 & 45 degrees
- 7 PSF = Dead Load roofing/framing

Live Load = 20 PSF

Snow Load = 15 PSF

• 3 PSF = Dead Load solar panels/mounting hardware

Total Dead Load =10 PSF

The above values are within acceptable limits of recognized industry standards for similar structures in accordance with the North Carolina Residential Code (2018). Analysis performed of the existing roof structure utilizing the above loading criteria indicates that the existing rafters will support the additional panel loading without damage, if installed correctly.

B. Solar Panel Anchorage

1. The solar panels shall be mounted in accordance with the most recent "SnapNrack Installation Manual", which can be found on the SnapNrack website (http://snapnrack.com/). If during solar

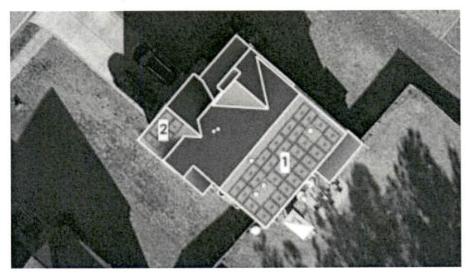
panel installation, the roof framing members appear unstable or deflect non-uniformly, our office should be notified before proceeding with the installation.

2. Maximum allowable pullout per lag screw is 235 lbs/inch of penetration as identified in the National Design Standards (NDS) of timber construction specifications for Southern Pine assumed. Based on our evaluation, the pullout value, utilizing a penetration depth of 2 1/2", is less than what is allowable per connection and therefore is adequate. Based on the variable factors for the existing roof framing and installation tolerances, using a thread depth of 2 1/2" with a minimum size of 5/16" lag screw per attachment point for panel anchor mounts should be adequate with a sufficient factor of safety.

3. Considering the roof slopes, the size, spacing, condition of roof, the panel supports shall be placed no greater than 48" o/c.

4. Panel supports connections shall be staggered to distribute load to adjacent trusses.

C. Solar Panel Layout



Based on the above evaluation, it is the opinion of this office that with appropriate panel anchors being utilized the roof system will adequately support the additional loading imposed by the solar panels. This evaluation is in conformance with the North Carolina Residential Code, current industry and standards, and based on information supplied to us at the time of this report.

Should you have any questions regarding the above or if you require further information do not hesitate to contact me.

North Carolina Licente



North Carolina Firm License No. 46546



PROJECT DESCRIPTION:

34 x REC SOLAR: REC360AA BLACK 360W MONO MODULES ROOF MOUNTED SOLAR PHOTOVOLTAIC MODULES

DC SYSTEM SIZE: 12.240kW DC AC SYSTEM SIZE: 9.860kW AC

EQUIPMENT SUMMARY

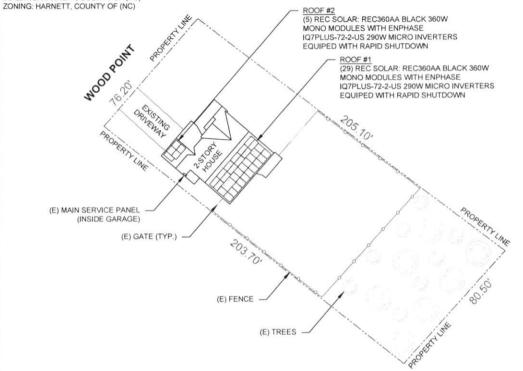
34 REC SOLAR: REC360AA BLACK 360W MONO MODULES

34 ENPHASE IQ7PLUS-72-2-US 290W MICRO INVERTERS

EQUIPED WITH RAPID SHUTDOWN

ROOF ARRAY AREA #1:- 545.78 SQ FT.

ROOF ARRAY AREA #2:- 94.10 SQ FT. AUTHORITIES HAVING JURISDICTION BUILDING: HARNETT, COUNTY OF (NC)



APPLICABLE CODES & STANDARDS NCBC 2018

NEC 2017

DESIGN SPECIFICATION OCCUPANCY: II CONSTRUCTION: SINGLE-FAMILY

ZONING: RESIDENTIAL GROUND SNOW LOAD: REFER STRUCTURAL LETTER

WIND EXPOSURE: REFER STRUCTURAL LETTER WIND SPEED: REFER STRUCTURAL LETTER







HOUSE PHOTO

PV-1 SCALE: NTS



VICINITY MAP

PV-1 SCALE: NTS

PV-12

PLOT PLAN WITH ROOF PLAN PV-1 PV-2 ROOF PLAN & MODULES PV-2A CIRCUIT LAYOUT ATTACHMENT DETAIL PV-3 PV-4 ELECTRICAL LINE DIAGRAM PLACARD PV-5 PV-6 MICRO INVERTER CHART PV-7 MODULE SPECIFICATIONS INVERTER SPECIFICATIONS PV-8 PV-9 COMBINER SPECIFICATIONS PV-10 RAIL SPECIFICATIONS PV-11 ATTACHMENT SPECIFICATIONS

SOLADECK SPECIFICATIONS

DESCRIPTION DATE REV 08/05/2021 INITIAL

DATE:08/05/2021

PROJECT NAME & ADDRESS

488 WOOD POINT, LILLINGTON, NC 27546 ANTHONY LEWIS RESIDENCE

> DRAWN BY **ESR**

SHEET NAME PLOT PLAN WITH **ROOF PLAN**

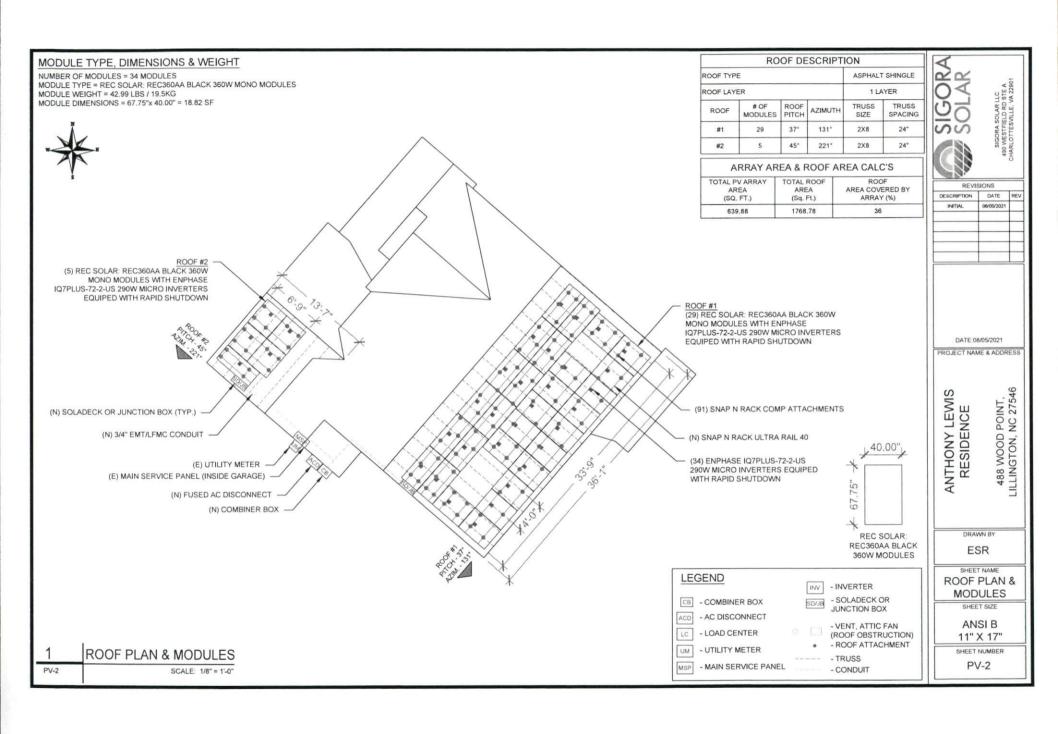
SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

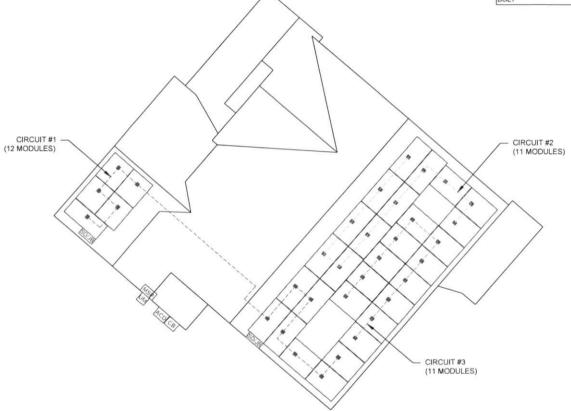
PV-1

PLOT PLAN WITH ROOF PLAN SCALE: 1/32" = 1'-0"



CIRCUIT LEGENDS
CIRCUIT #1
CIRCUIT #2
CIRCUIT #3

BILL OF MATERIALS				
EQUIPMENT	QTY	DESCRIPTION		
SOLAR PV MODULES	34	REC SOLAR: REC360AA BLACK 360W		
MICRO INVERTERS	34	ENPHASE IQ7PLUS-72-2-US 290W MICRO INVERTERS EQUIPED WITH RAPID SHUTDOWN		
SOLADECK OR JUNCTION BOX	2	SOLADECK OR JUNCTION BOX		
MODULE CLAMPS	50	MID MODULE CLAMPS		
END CLAMPS	36	END CLAMPS / STOPPER SLEEVE		
ATTACHMENT	91	SNAP N RACK COMP		
BOLT	91	LAG BOLT		







REVISIONS
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DATE:08/05/2021

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ANTHONY LEWIS RESIDENCE 488 WOOD POINT, LILLINGTON, NC 27546

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ESR

CIRCUIT LAYOUT

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

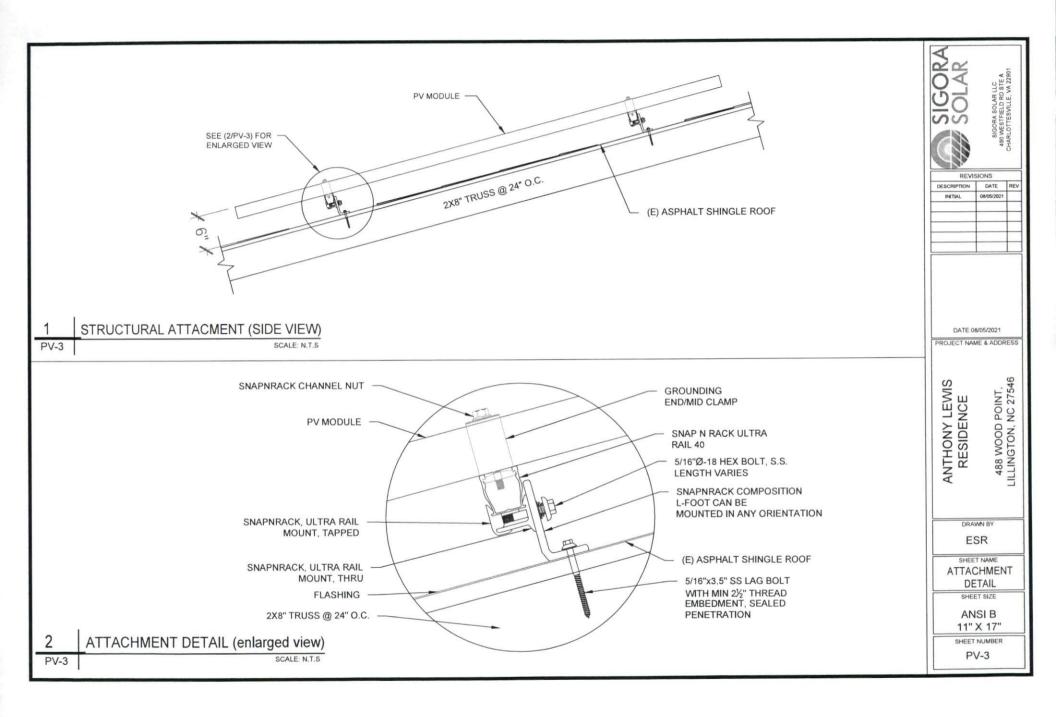
PV-2A

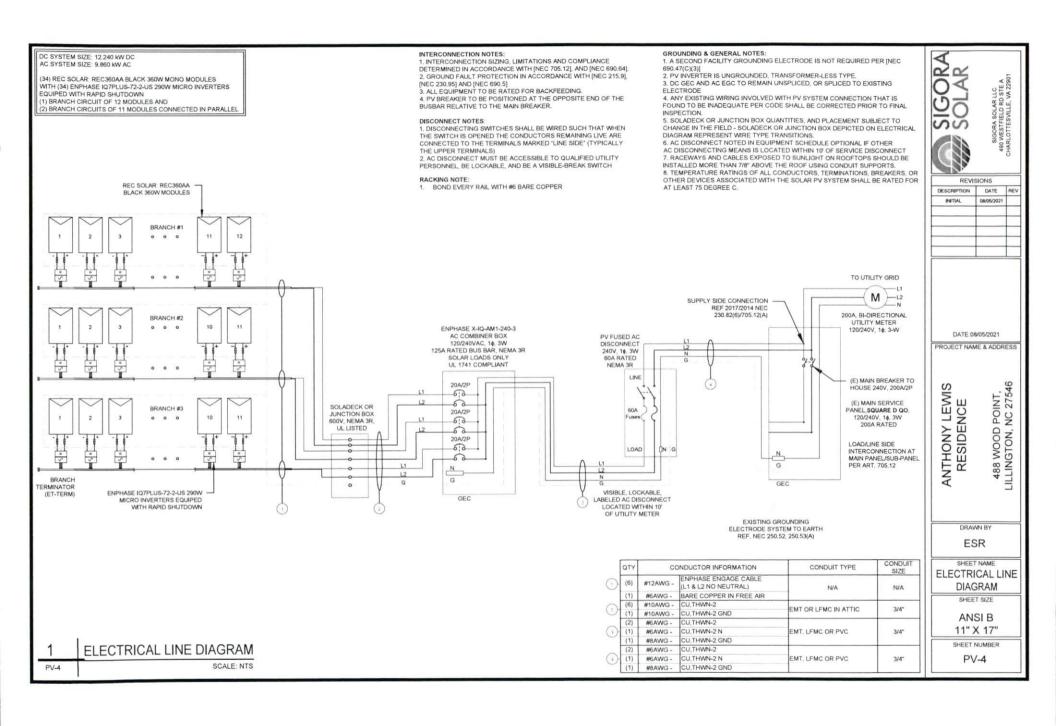


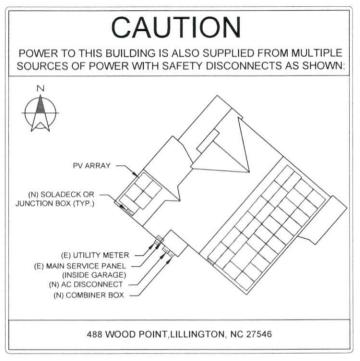
ROOF PLAN WITH CIRCUIT LAYOUT

SCALE: 1/8" = 1"-0"

PV-2A



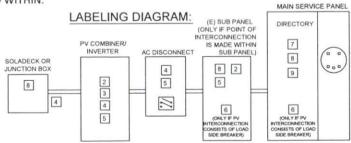




DIRECTORY

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM.

(ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED WITHIN: NEC 690.56(B)&(C), [NEC 705.10])



** ELECTRICAL DIAGRAM SHOWN ABOVE IS FOR LABELING PURPOSES ONLY. NOT AN ACTUAL REPRESENATION OF EQUIPMENT AND CONNECTIONS TO BE INSTALLED, LABEL LOCATIONS PRESENTED MAY VETY DEPENDING ON TYPE OF INTERCONNECTION METHOD AND LOCATION PRESENTED ELECTRICAL DIAGRAM PAGE. **

LABELING NOTES:

- LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS, ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
- 2. LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRIC CODE. OSHA STANDARD 19010, 145. ANSI Z535.
- 3. MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 4. LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED [NEC 110.21]
- LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND; REFLECTIVE, AND PERMANENTLY AFFIXED (IFC 605.11.1.1)

SOLAR

REVISIONS
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DATE 08/05/2021

PROJECT NAME & ADDRESS

ANTHONY LEWIS RESIDENCE

488 WOOD POINT, LILLINGTON, NC 27546

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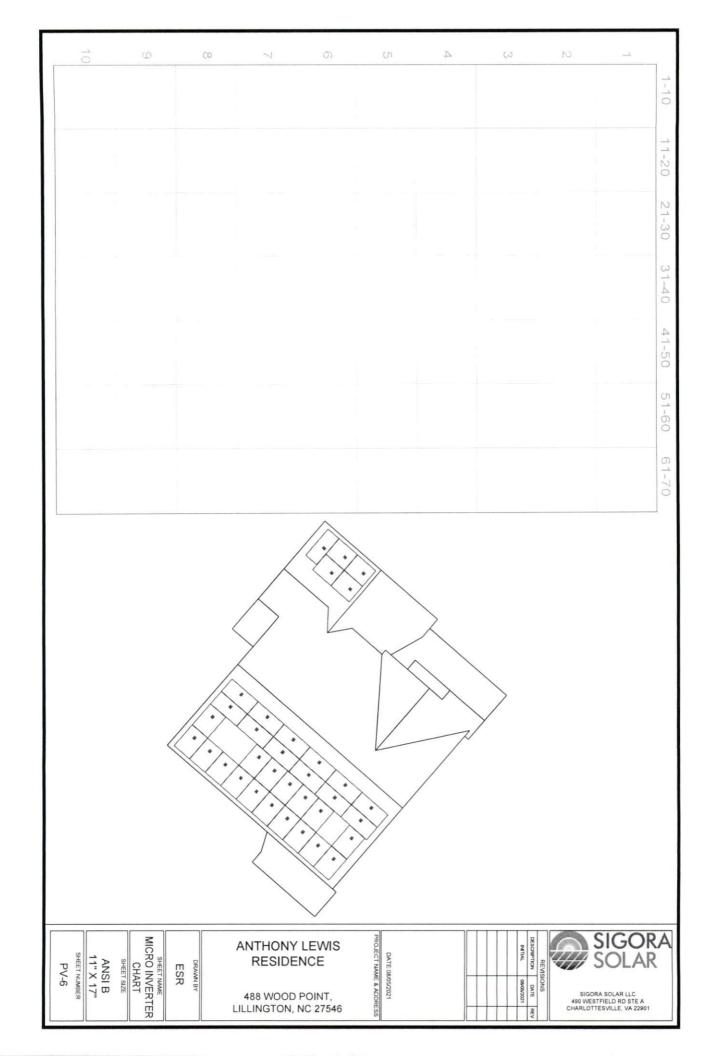
SHEET NAME

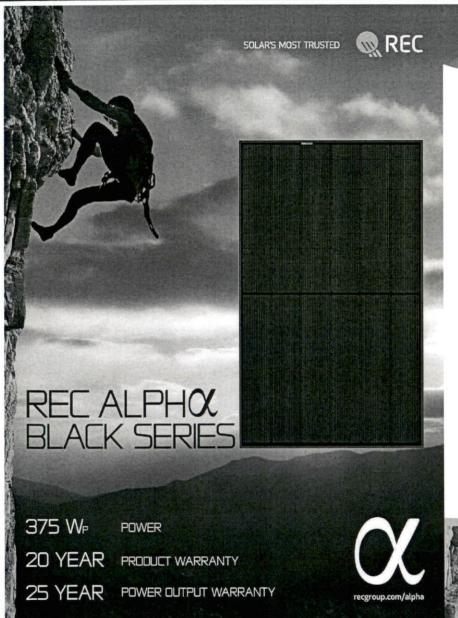
PLACARD

ANSI B

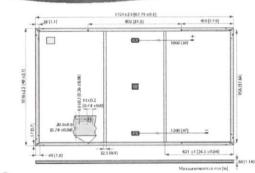
11" X 17" SHEET NUMBER

PV-5





REC ALPHO BLACK SERIES



GENERAL DA	ATA		
Cell type:	120 half-cut cells with REC heterojunction cell technology	Junction box	3-part, 3 bypass diodes, IP67 rated in etcordance with IEC 62790
	6 strings of 20 cells in series	Cable	4mm² solar cable,10m+12m
	3.2 mm solar glass with		in accordance with EN 50618
Glass	anti-reflection surface treatment		StilubliMC4P4-KBT4/KST4(4 mm²)
Backsheet:	Highly resistant	Connectors	in accordance with IEC 62852 IF68 pary when connected

ELECTRICAL DATA @ STC	Prod	Product Code*: RECxxxAA Black				
Nominal Power - P (Wp)	355	360	365	370	375	
Watt Class Sorting-{W}	-0/+5	-0/-5	-0/+5	-0/+5	-0/+5	
Norninal Power Voltage - V _{tore} (V)	37.4	37.7	38.0	38.3	38.7	
Nominal Power Current -1,550 (A)	9.50	9.55	9.60	9.66	9.72	
Open Circuit Voltage - V _{ix} (V)	44.0	44.1	44.3	44.5	44.6	
Short Circuit Current - L _C (A)	10.19	10.23	10.26	10.30	10.40	
Panel Efficiency (%)	20.3	20.6	20.9	21.2	21.4	
Values at standard test conditions (STC-air mass AV tolerance of $V_{\rm eff}$ &c., 1896 withenone wall class, "Whe	11.5, irrediance 1000 W/m re zox indicates the norm	, semperature 2 of power class (P	S ² C) basedon a _{en} l at STC above	productionspre 8.	ad with a	

Anodized aluminum (black) Origin.

ELECTRICAL DATA @ NMOT	Product Code*: RECxxxAA Black				
Nominal Power-P (Wp)	270	274	278	282	286
Nominal Power Voltage - V, sur (V)	35.2	35.5	35.8	36.1	36.4
Nominal Power Current - I _{serv} (A)	7.67	2.71	7.76	7.80	7.85
OpenCircuit Voltage - V _{oc} (V)	41,4	41.6	41.7	41.9	42.0
Short Circuit Current - L. (A)	8.23	8.26	8.29	8.32	8,40

Naminal module operating temperature (NMO) - air mass, AMILS, irradiance $600 \, \text{W/m}^2$ temperature $20 \, \text{C}$, windspeed $1 \, \text{m/s}$). *Where you indicates the naminal power class (P_{max}) at STC above.

CERTIFICATIONS

PID
SaltMist
Ammonia Resistance
Ignitability(Class E)
Ignitability(Class I)
Dynamic Mechanical Load
Hailstone (35mm)
Cyclic Wind Load

WARRANTY

20year product warranty 25year linear power output warranty Maximum armual power degression of D 25% p.a. Guarantees 25% of power after 25 years See warranty conditions for further an alla.

MECHANICAL DATA

	Dimensions:	1721 x 1016 x 30 mm
	Area	1,75 m²
0	Weight:	19.5 kg

MA VIMI IM DATINGS

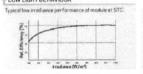
Operational temperature:	-40*85*C	
Maximum system voltage:	1000V	
Design laad (+): snow Maximum test load (+):	4666Pa (475kg/m²) 7000Pa (713kg/m²)	
Design load (-) wind Maximum test load (-)	2666 Pa (272 kg/m²)* 4000 Pa (407 kg/m²)*	
Max series fune rating	25 A	
Max reverse current	25 A	

*Calculated using a safety factor of LS *See impalicition menual for mounting instructions

TEMPERATURE DATINGS

-0.26%/°C
-0.24%/°C
0.04%/"0

PLOW LIGHT BEHAVIOUR



Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through Integrated manufacturing from silicon to waters, calls, high quality panish and extending to solar solutions, REC provides the world with artificials source of clann energy REC servowers product quality is isosported by the lowest were analyst claims rate in the industry, REC in a Bussess Referencement with the adjustment of the solar panish and analysis of the solar panish and analysis of the solar panish and a solar panish a





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REVISIONS						
DESCRIPTION DATE		REV				
INITIAL	08/05/2021					

DATE:08/05/2021

PROJECT NAME & ADDRESS

ANTHONY LEWIS RESIDENCE

488 WOOD POINT, LILLINGTON, NC 27546

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ESR

SHEET NAME MODULE **SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER PV-7

Data Sheet Enphase Microinverters Region AMERICAS

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 IO Envoy™, Enphase IO 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 arid requirements
- · Configurable for varying grid profiles
- · Meets CA Rule 21 (UL 1741-SA)
- * The IQ 7+ Micro is required to support 72-cell modules



Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	1Q7-60-2-US		IQ7PLUS-72-2	2-US		
Commonly used module painings'	235 W - 350 W	+	235 W - 440 W +			
Module compatibility	60-cell PV mo	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	11		п			
DC port backfeed current	0 A		OA.			
PV array configuration		ded array; No additio ction requires max 20				
OUTPUT DATA (AC)	IQ 7 Microin	verter	IQ 7+ Microinverter			
Peak output power	250 VA		295 VA			
Maximum continuous output power	240 VA		290 VA			
Nominal (L-L) voltage/range ³	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 ^a	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)		
Overvoltage class AC port	111		- 61			
AC port backfeed current	0 A		0 A			
Power factor setting	1.0		1.0			
Power factor (adjustable)	0.85 leading	0.85 lagging	0 85 leading	0.85 lagging		
EFFICIENCY	@240 V	@208 V	@240 V	@208 V		
Peak 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% (c					
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amph	enol H4 UTX with ac	Iditional Q-DCC-5	adapter)		
Dimensions (WxHxD)		mm x 30.2 mm (with	out bracket)			
Weight	1.08 kg (2.381					
Cooling	Natural conver	ction - No fans				
Approved for wet locations	Yes	Yes				
Pollution degree	PD3					
Enclosure	Class II double	insulated, corresion	resistant polyme	eric enclosure		
Environmental category / UV exposure rating	NEMA Type 6	outdoor .				
FEATURES						
Communication	Power Line Co	rnmunication (PLC)				
Monitoring		ager and MyEnlighte equire installation of				
Disconnecting means		connectors have be quired by NEC 690.	en evaluated and	approved by UL for use as the load-break		
Compliance	OAN/CSA-C22 NO. 1071-01.					

This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 590.12 and C22.1-2015 Rule 54-218 Rapid Shutdown of PV Systems, for AC

and DC conductors, when installed according manufacturer's instructions.

- No enforced DC/AC ratio. See the compatibility calculator at https://enphase.gom/en-us/support/module.compatibility
 Nomenal voltage range can be extended beyond normal if requised by the utility.
 Livitat may supply, Refer to local requirements to 6 offen the number of meticonverters per branch in your area.

To learn more about Enphase offerings, visit enphase.com

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DESCRIPTION DATE 08/05/2021

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PROJECT NAME & ADDRESS

ANTHONY LEWIS RESIDENCE

488 WOOD POINT, LILLINGTON, NC 27546

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ESR

SHEET NAME **INVERTER SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

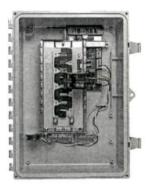
PV-8



To learn more about Enphase offerings, visit enphase.com

Enphase IQ Combiner 3 (X-IQ-AM1-240-3)

The Enphase IQ Combiner 3™ with Enphase IQ Envoy™ consolidates interconnection equipment into a single enclosure and streamlines PV and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.



Smart

- Includes IQ Envoy for communication and control
- Flexible networking supports Wi-Fi, Ethernet, or cellular
- Optional AC receptacle available for PLC bridge
- Provides production metering and optional consumption monitoring

Simple

- Reduced size from previous combiner
- Centered mounting brackets support single stud mounting
- · Supports back and side conduit entry
- Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- 80 A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- · Five-year warranty
- UL listed



Enphase IQ Combiner 3

MODEL NUMBER	
IQ Combiner 3 X-IQ-AM1-240-3	IQ Combiner 3 with Enphase IQ Envoy* printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 +/: 0.5%) and optional* consumption monitoring (+/: 2.5%)
ACCESSORIES and REPLACEMENT PARTS (no	ot included, order separately)
Enphase Mobile Connect** CELLMODEM-03 (46 / 12-year data plan) CELLMODEM-01 (36 / 5-year data plan) CELLMODEM-M1 (46 based LTE-M / 5-year data plan)	Plug and play industrial grade cellular modern with data plan for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.)
Consumption Monitoring* CT CT-200-SPLIT	Split core current transformers enable whole home consumption metering (+/- 2.5%).
Circuit Breakers BRK-10A-2-240 BRK-15A-2-240 BRK-20A-2P-240	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 10A, Eaton BR210 Circuit breaker, 2 pole, 15A, Eaton BR225 Circuit breaker, 2 pole, 20A, Eaton BR220
EPLC-01	Power line carrier (communication bridge pair), quantity 2
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 3 (required for EPLC-01)
XA-ENV-PCBA-3	Replacement IQ Envoy printed circuit board (PCB) for Combiner 3
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240 VAC, 60 Hz
Eaton BR series busbar rating	125 A
Max. continuous current rating (output to grid)	65 A
Max. fuse/circuit rating (output)	90 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max. continuous current rating (input from PV)	64A
Max. total branch circuit breaker rating (input)	80A of distributed generation / 90A with IQ Envoy breaker included
Production Metering GT	200 A solid core pre-installed and wired to IQ Envoy
MECHANICAL DATA	
Dimensions (WxHxD)	49.5 x 37.5 x 16.8 cm (19.5" x 14.75" x 6.63"). Height is 21.06" (53.5 cm with mounting bracket
Weight	7.5 kg-(16.5 lbs)
Ambient temperature range	-40° C to +46° C (-40° to 115° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors 60 A breaker branch input: 4 to 1/0 AWG copper conductors Main lug combined output: 10 to 2/0 AWG copper conductors Neutral and ground: 14 to 1/0 copper conductors Aways follow local code requirements for conductor sizing.
Altitude	To 2000 meters (6,560 feet)
INTERNET CONNECTION OPTIONS	
Integrated Wi-Fi	802.11b/g/n
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)
Cellular	Optional, CELLMODEM-01 (3G) or CELLMODEM-03 (4G) or CELLMODEM-M1 (4G based LTE-finot included)
COMPLIANCE	
Compliance, Combiner	UL 1741 CANICSA C22.2 No. 107.1 47 CFR, Part 15, Class B, ICES 003 Production metering: ANSI C12.20 accuracy class 0.5 (PV production)
Compliance, IQ Envoy	UL 60601-1/CANCSA 22.2 No. 61010-1

To learn more about Enphase offerings, visit enphase.com

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		-

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488 WOOD POINT, LILLINGTON, NC 27546

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SHEET NAME COMBINER SPECIFICATION

SHEET SIZE

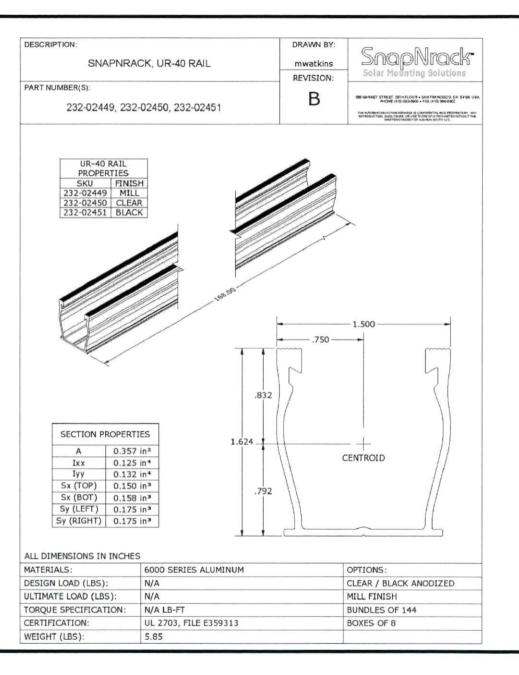
ANSI B 11" X 17"

SHEET NUMBER

PV-9



To learn more about Enphase offerings, visit enphase.com







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488 WOOD POINT, LILLINGTON, NC 27546

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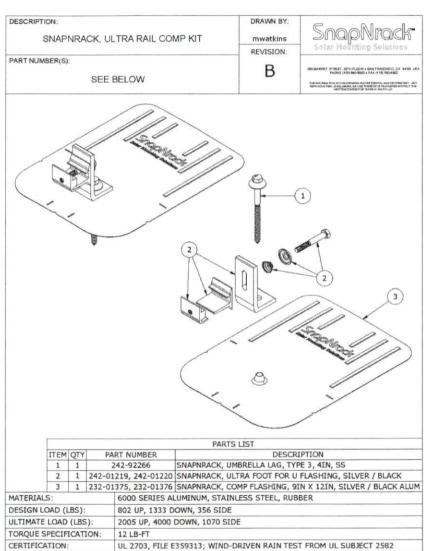
ESR

SHEET NAME RAIL **SPECIFICATION**

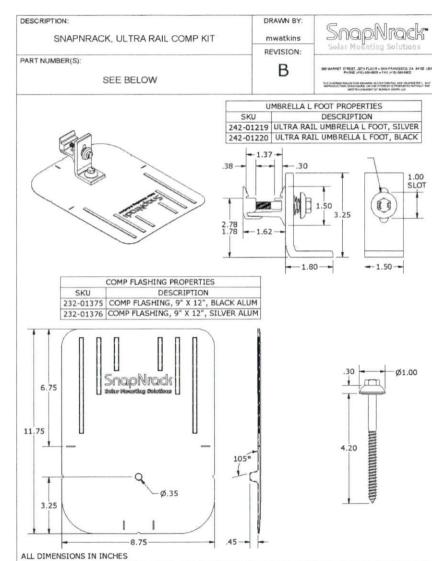
SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER PV-10



WEIGHT (LBS):





SIGORA SOLAR LLC 490 WESTFIELD RD STE CHARLOTTESVILLE, VA 2

REVISIONS				
DESCRIPTION	DATE	REV		
INITIAL	08/05/2021			
		-		

DATE:08/05/2021

PROJECT NAME & ADDRESS

ANTHONY LEWIS RESIDENCE

488 WOOD POINT, LILLINGTON, NC 27546

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ATTACHMENT SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-11



Basic Features

- · Stamped Seamless Construction
- · 18 Gauge Galvanized Steel
- Powder Coated Surfaces
- · Flashes into the roof deck
- 3 Roof deck knockouts .5", .75", 1"
- 5 Centering dimples for entry/exit fittings or conduit
- · 2 Position Ground lug installed
- · Mounting Hardware Included



SolaDeck Model SD 0783



SolaDeck UL50 Type 3R Enclosures

Available Models: Model SD 0783 - (3" fixed Din Rail) Model SD 0786 - (6" slotted Din Rail)

SolaDeck UL 1741 Combiner/Enclosures

Models SD 0783-41 and SD 0786-41 are labeled and ETL listed UL STD 1741 according to the UL STD 1741 for photovoltaic combiner enclosures.

Max Rated - 600VDC, 120AMPS

Model SD 0783-41 3" Fixed Din Rail fastened using Norlock System

- **Typical System Configuration
- 4- Din Rail Mounted Fuse Holders 600VDC 30 AMP
- 1- Power Distribution Block 600VDC 175AMP
- 1- Bus Bar with UL lug

Model SD 0786-41 6" Slotted Din Rail fastened using steel studs

- **Typical System Configuration
- 4- Din Rail Mounted Fuse Holders 600VDC 30 AMP
- 4- Din Rail Mounted Terminal Blocks Bus Bars with UL lug

"Fuse holders and terminal blocks added in the field must be UL listed or recognized and meet 600 VDC 30 AMP 110C for fuse holders, 600V 50 AMP 90C for rail mounted terminal blocks and 600 V 175 AMP 90C for Power Distribution Blocks, Use Copper Wire Conductors.



Cover is trimmed to allow conduit or fittings, base is center dimpled for fitting locations.



Model SD 0783-41, wired with Din Rail mounted fuse holders, bus bar and power distribution block.



Model SD 0786-41, wired with Din Rail mounted fuse holders, terminal blocks and bus bars.

RSTC Enterprises, Inc • 2219 Heimstead Road • Eau Cliare, WI 54703 For product information call 1(866) 367-7782





REVISIONS

DESCRIPTION	DATE	REV
INITIAL	08/05/2021	
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488 WOOD POINT, LILLINGTON, NC 27546

ESR

SHEET NAME SOLADECK SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-12