

July 21, 2021

Sigora Solar 1222 Harris Street Charlottesville, VA 22903

Re:

Engineering Services Strycharz Residence 473 Wood Point Drive, Lillington, NC 8.280 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 truss system with all chords constructed of 2 x 4 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 34 & 45 degrees
- 7 PSF = Dead Load roofing/framing Live Load = 20 PSF Snow Load = 15 PSF
- <u>3 PSF = Dead Load solar panels/mounting hardware</u>

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 (2012). 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.

Page 2 of 2

- 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 ½", 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 ½" 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.

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.

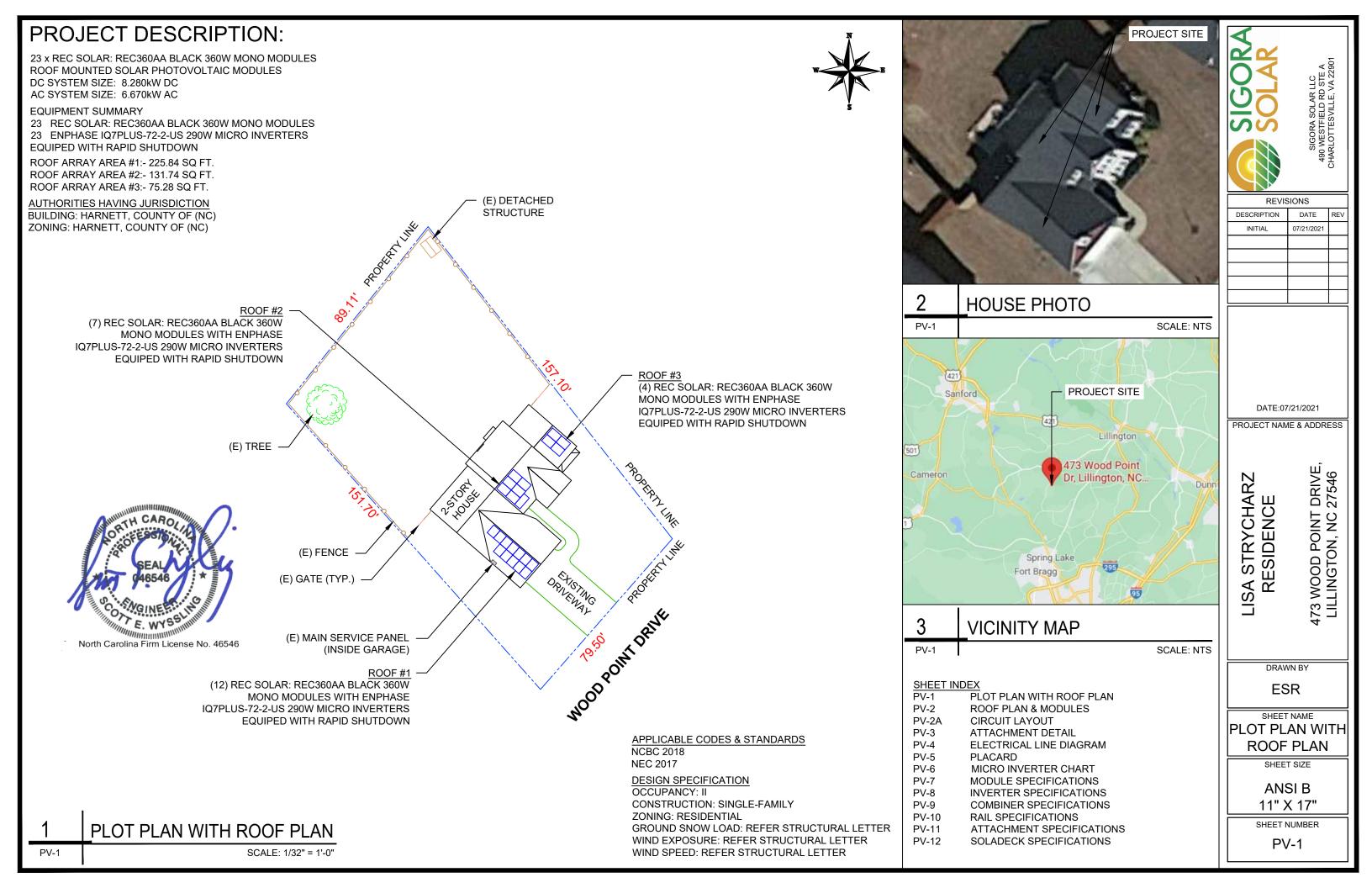
Should you have any questions regarding the above or if you require further information do not hesitate to contact me.

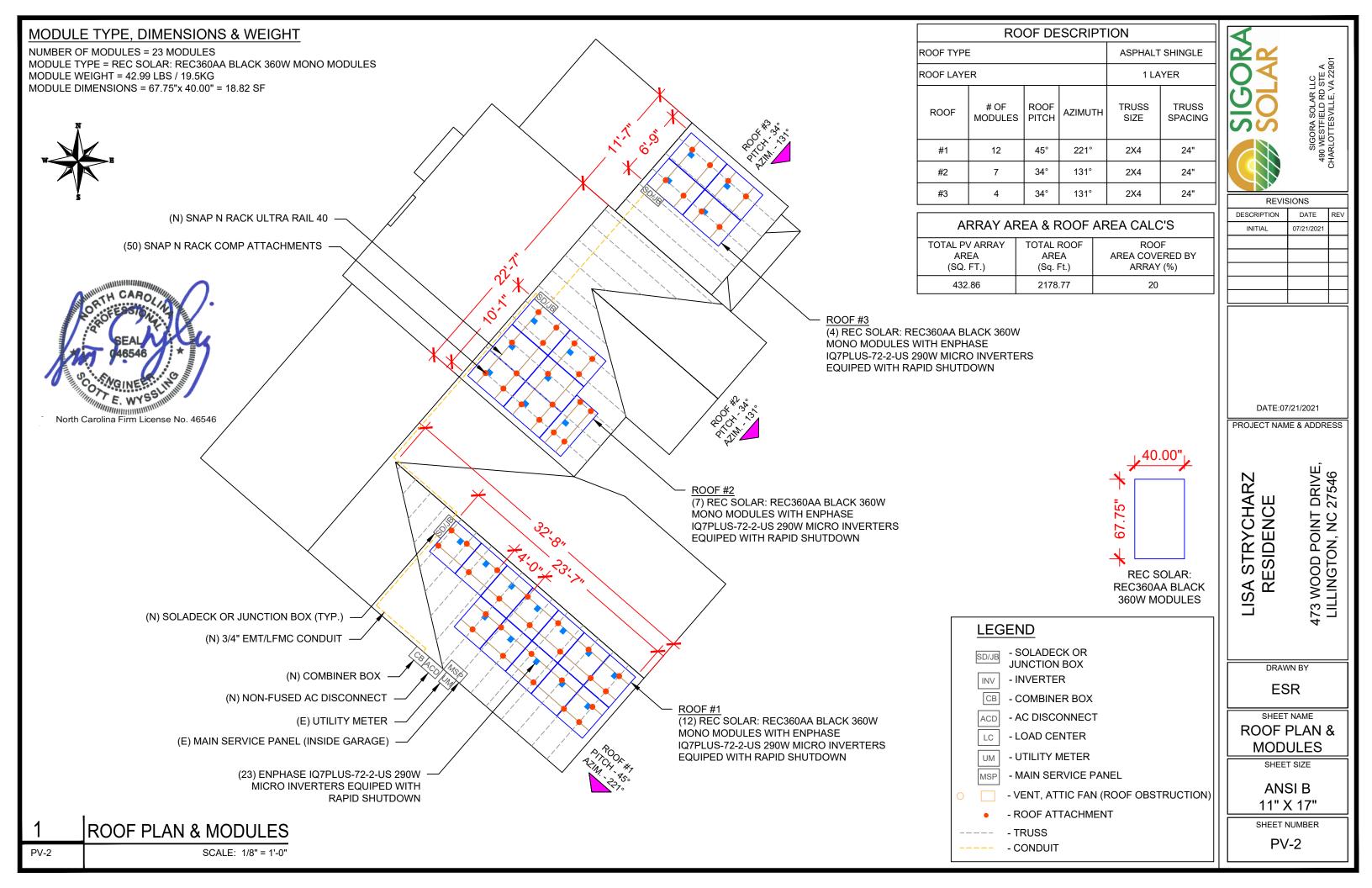
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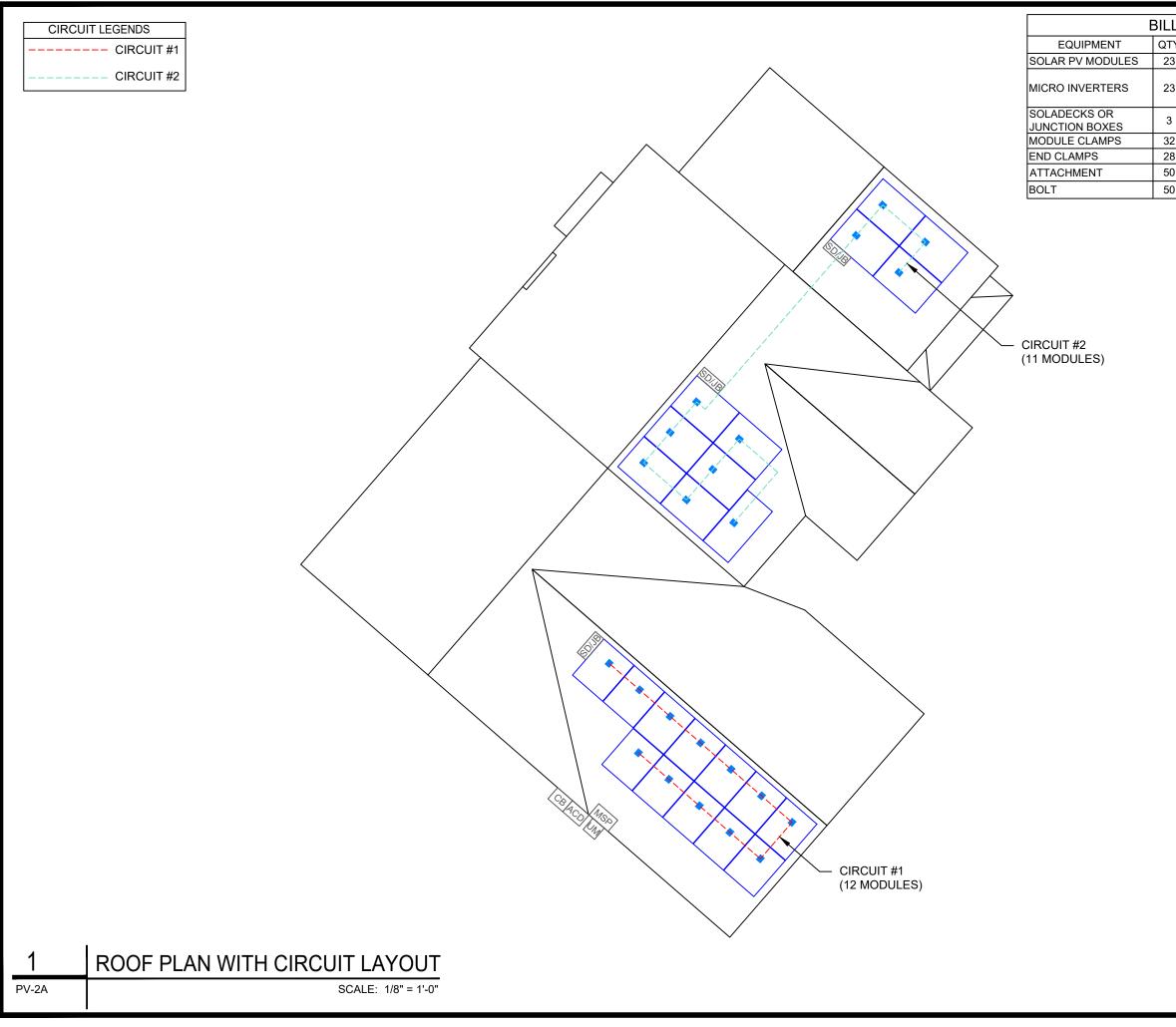
Scott E. Wyssling, PE North Carolina Licence Sc. 46546





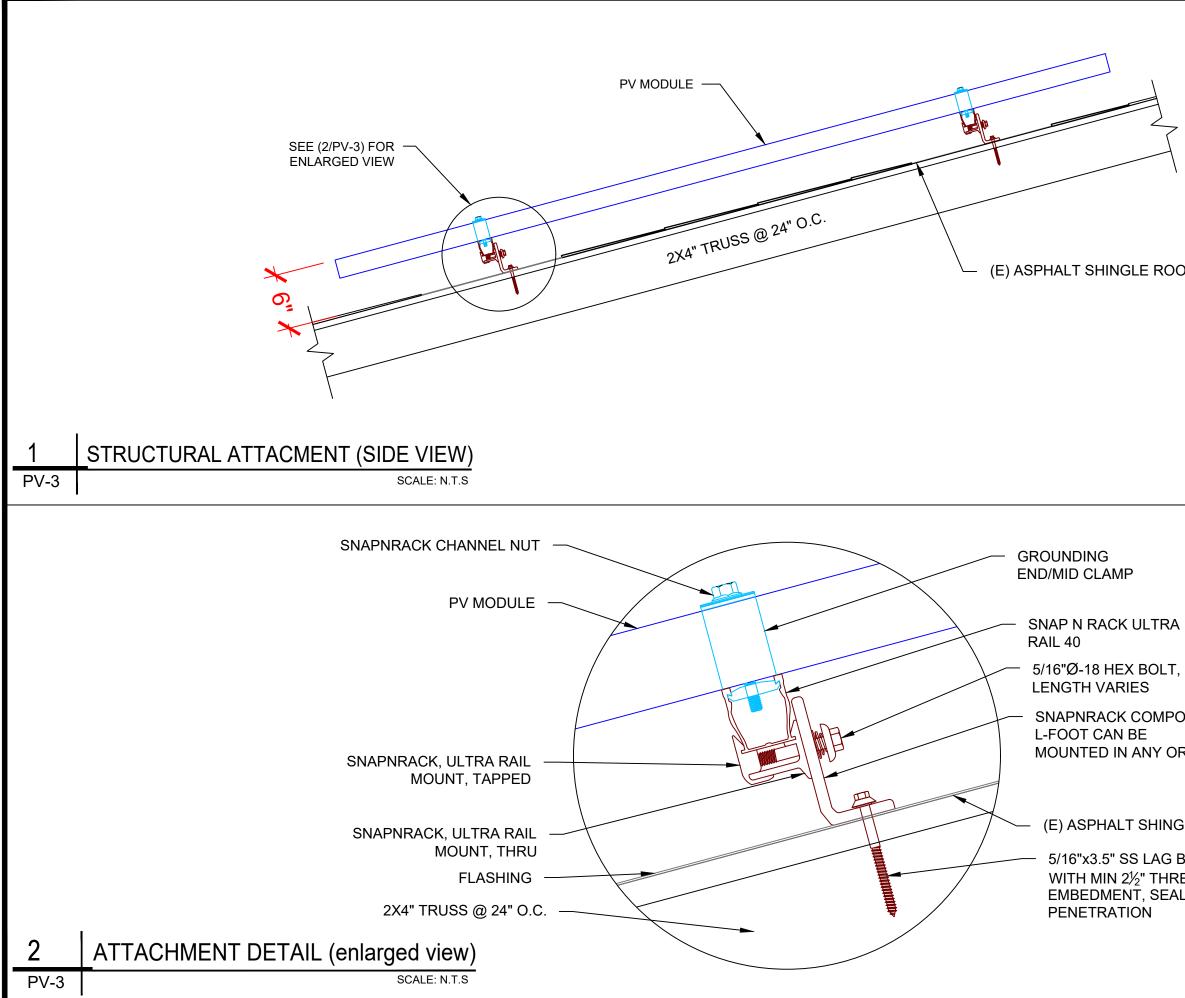




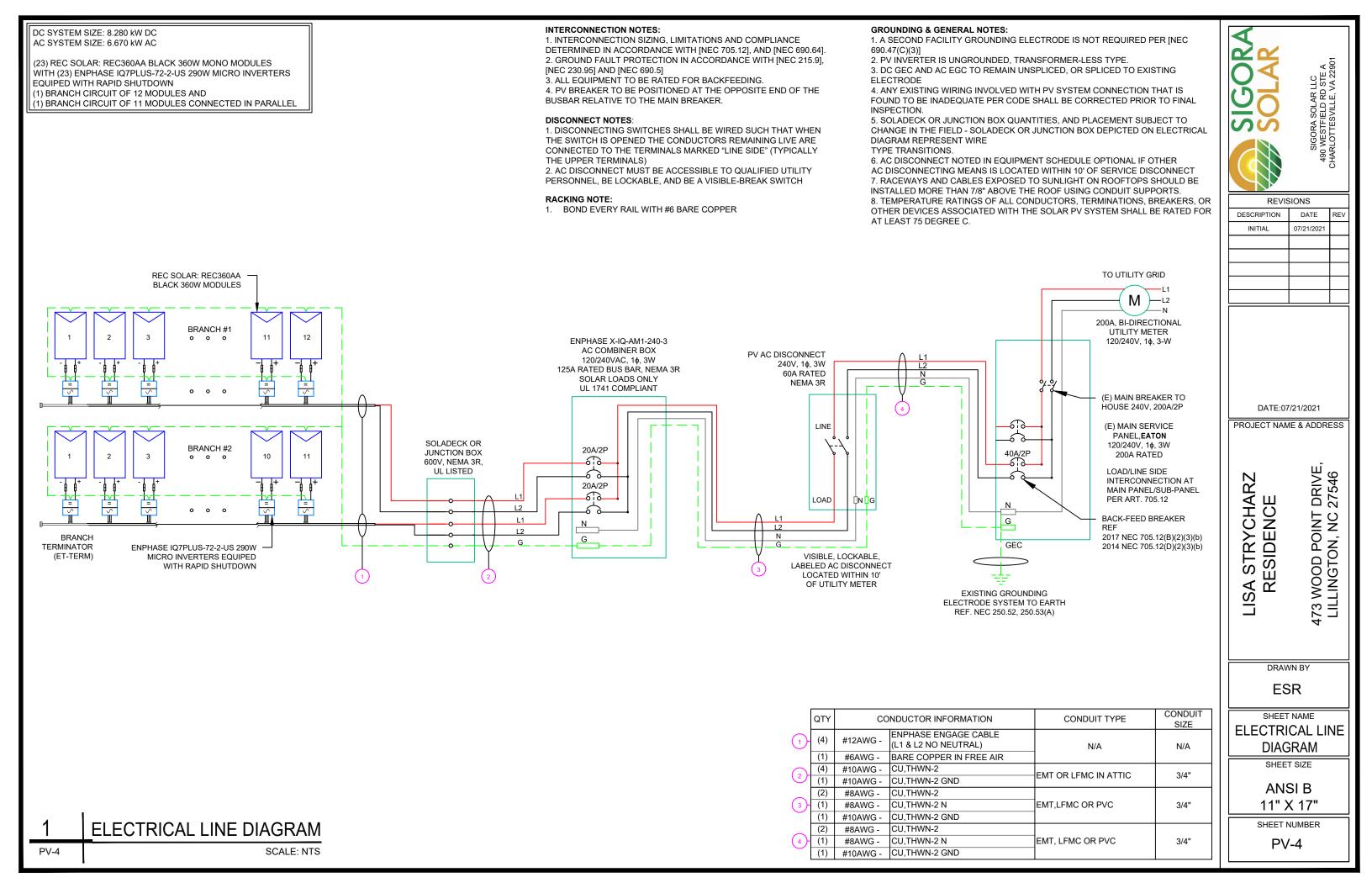


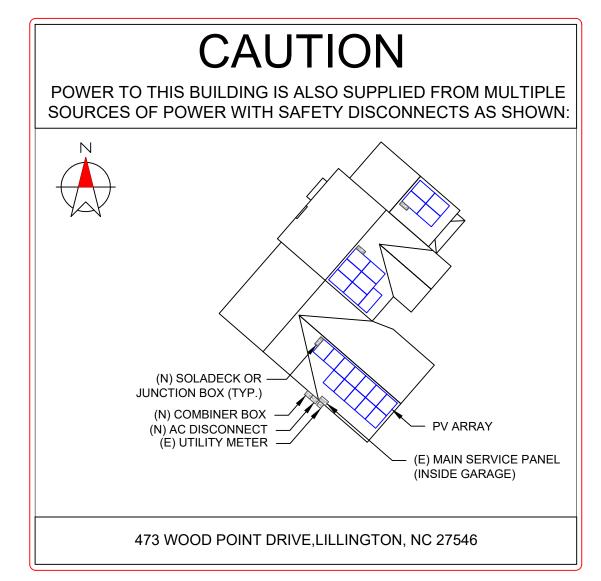
L (OF MATERIALS
ΓY	DESCRIPTION
3	REC SOLAR: REC360AA BLACK 360W
3	ENPHASE IQ7PLUS-72-2-US 290W MICRO INVERTERS EQUIPED WITH RAPID SHUTDOWN
3	SOLADECKS OR JUNCTION BOXES
2	MID MODULE CLAMPS
8	END CLAMPS / STOPPER SLEEVE
0	SNAP N RACK COMP
0	LAG BOLT

REVIS DESCRIPTION INITIAL	SIGC 490 WE	CHARLOTTESVILLE, VA 22901		
PROJECT NAM FISA STRYCHARZ RESIDENCE	DATE:07/21/2021 PROJECT NAME & ADDRESS BRANCE 473 WOOD POINT DRIVE FILINGTON, NC 27546 DRAMN BA			
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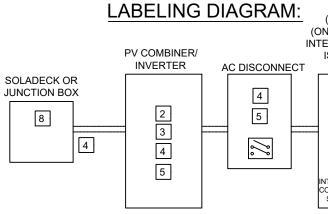




DIRECTORY

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])



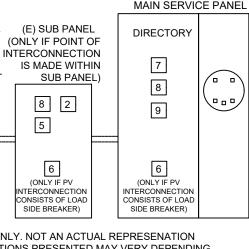
LABELING NOTES:

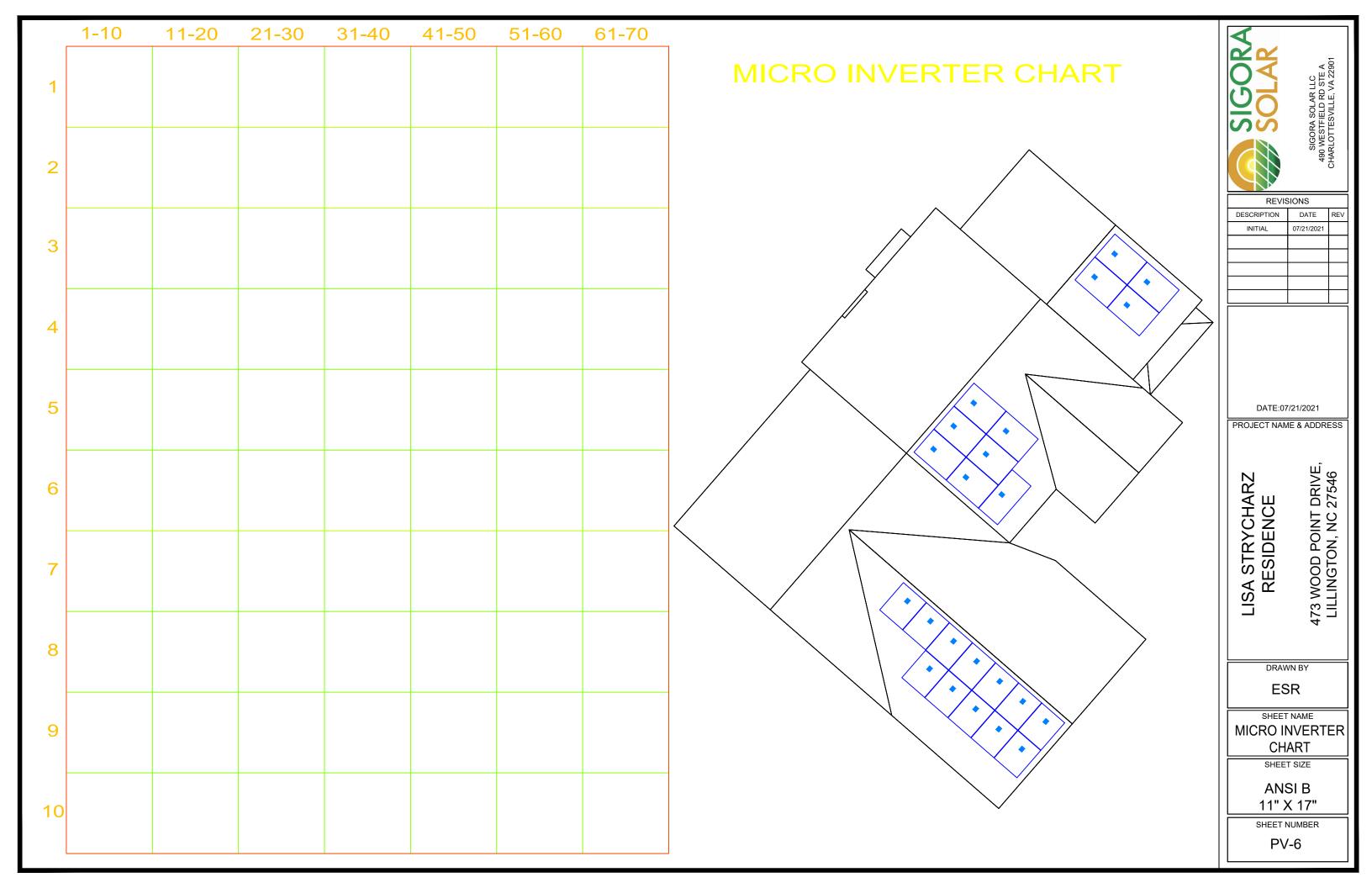
- 1. LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS. ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
- 2. LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRIC CODE, OSHA STANDARD 19010.145, ANSI Z535.
- 3. MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 4. LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED [NEC 110.21]

5. LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND; REFLECTIVE, AND PERMANENTLY AFFIXED [IFC 605.11.1.1]

** ELECTRICAL DIAGRAM SHOWN ABOVE IS FOR LABELING PURPOSES ONLY. NOT AN ACTUAL REPRE OF EQUIPMENT AND CONNECTIONS TO BE INSTALLED. LABEL LOCATIONS PRESENTED MAY VER ON TYPE OF INTERCONNECTION METHOD AND LOCATION PRESENTED ELECTRICAL DIAGRAM PA

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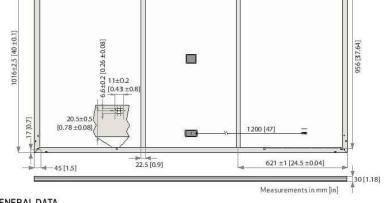


REC ALPHO BLACK SERIES



SOLAR'S MOST TRUSTED

1721±2.5 [67.75±0.1] 28 [1.1] 455 [17.9] 802 [31.5] (F)



GENERAL DATA

Cell type:	120 half-cut cells with REC heterojunction cell technology 6 strings of 20 cells in series	Junction box:	3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790
		Cable:	4 mm ² solar cable, 1.0 m + 1.2 m
Glass	3.2 mm solar glass with		IN accordance with EN 50518
Glass:	anti-reflection surface treatment		StäubliMC4PV-KBT4/KST4(4mm²)
Backsheet:	Highly resistant polymeric construction	Connectors:	in accordance with IEC 62852 IP68 only when connected
Frame:	Anodized aluminum (black)	Origin:	Made in Singapore

Product Code*: RECxxxAA Black				
355	360	365	370	375
-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
37.4	37.7	38.0	38.3	38.7
9.50	9.55	9.60	9.66	9.72
44.0	44.1	44.3	44.5	44.6
10.19	10.23	10.26	10.30	10.40
20.3	20.6	20.9	21.2	21.4
	355 -0/+5 37.4 9.50 44.0 10.19	355 360 -0/+5 -0/+5 37.4 37.7 9.50 9.55 44.0 44.1 10.19 10.23	355 360 365 -0/+5 -0/+5 -0/+5 37.4 37.7 38.0 9.50 9.55 9.60 44.0 44.1 44.3 10.19 10.23 10.26	355 360 365 370 -0/+5 -0/+5 -0/+5 -0/+5 37.4 37.7 38.0 38.3 9.50 9.55 9.60 9.66 44.0 44.1 44.3 44.5 10.19 10.23 10.26 10.30

ELECTRICAL DATA @ NMOT	Proc	luct Code*: F	RECxxxAA	Black	
Nominal Power - P _{MPP} (Wp)	270	274	278	282	286
Nominal Power Voltage - V _{MPP} (V)	35.2	35.5	35.8	36.1	36.4
Nominal Power Current - I _{MPP} (A)	7.67	7.71	7.76	7.80	7.85
OpenCircuitVoltage-V _{oc} (V)	41.4	41.6	41.7	41.9	42.0
Short Circuit Current - I _{sc} (A)	8.23	8.26	8.29	8.32	8.40

Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s). * Where xxx indicates the nominal power class (P_{ree}) at STC above.



REC ALPHO

375 W_P

POWER

20 YEAR PRODUCT WARRANTY

25 YEAR POWER OUTPUT WARRANTY

recgroup.com/alpha



CERTIFICATIONS

IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
15011925-2	Ignitability (Class E)
UNI8457/9174	Ignitability (Class 1)
IEC 62782	Dynamic Mechanical Load
IEC 61215-2:2016	Hailstone (35mm)
A54040.2 NCC 2016	Cyclic Wind Load



WARRANTY

20 year product warranty

25 year linear power output warranty Maximum annual power degression of 0.25% p.a. Guarantees 92% of power after 25 years See warranty conditions for further details

MECHANICAL DATA

Dimensions:	1721 x 1016 x 30 mm
Area:	1,75 m²
Weight:	19,5 kg

MAXIMUM RATINGS

Operational temperature:	-40 +85°C
Maximum system voltage:	1000 V
Design load (+): snow	4666Pa (475 kg/m ²)*
Maximum test load (+):	7000 Pa (713 kg/m²)*
Design load (-): wind	2666 Pa (272 kg/m²)*
Maximum test load (-):	$4000 Pa (407 kg/m^2)^*$
Max series fuse rating:	25 A
Max reverse current:	25 A
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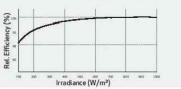
* Calculated using a safety factor of 1.5 *See installation manual for mounting instructions

TEMPERATURE RATINGS*

Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P _{MPP}	-0.26 %/°C
Temperature coefficient of V _{oc} :	-0.24 %/°C
Temperature coefficient of I _{sc} :	0.04 %/°C
*The temperature coefficients state	ed are linear values

LOW LIGHT BEHAVIOUR





Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through integrated manufacturing from silicon to wafers, cells, high-quality panels and extending to solar solutions, REC provides the panels and extending to solar solutions, REC provides the world with a reliable source of clean energy. REC's renowned product quality is supported by the lowest warranty claims rate in the industry. REC is a Bluestar Elkem company with headquarters in Norway and operational headquarters in Singapore. REC employs around 2,000 people worldwide, producing 1.5 GW of solar panels annually.



SIGORA SOLAR	SIGORA SOLAR LLC 490 WESTFIELD RD STE A CHARLOTTESVILLE, VA 22901			
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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 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.



Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US		IQ7PLUS-72-2
Commonly used module pairings ¹	235 W - 350 W	+	235 W - 440 W -
Module compatibility	60-cell PV mod		60-cell and 72-
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	Ш		П
DC port backfeed current	0 A		0 A
PV array configuration		led array; No additio tion requires max 20	
OUTPUT DATA (AC)	IQ 7 Microinv	verter	IQ 7+ Microin
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
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 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)
Overvoltage class AC port	111		111
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 (
EFFICIENCY	@240 V	@208 V	@240 V
Peak efficiency	97.6 %	97.6 %	97.5 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %
MECHANICAL DATA			
Ambient temperature range	-40°C to +65°C	2	
Relative humidity range	4% to 100% (co	ondensing)	
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amph	enol H4 UTX with ad	Iditional Q-DCC-5
Dimensions (WxHxD)	212 mm x 175	mm x 30.2 mm (with	iout bracket)
Weight	1.08 kg (2.38 lt	os)	
Cooling	Natural convec	tion - No fans	
Approved for wet locations	Yes		
Pollution degree	PD3		
Enclosure	Class II double	-insulated, corrosion	n resistant polyme
Environmental category / UV exposure rating	NEMA Type 6 /		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -
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Communication	Power Line Co	mmunication (PLC)	
Monitoring		ager and MyEnlighte	n monitorina optic
		equire installation of	
Disconnecting means		connectors have be uired by NEC 690.	een evaluated and
Compliance	CAN/CSA-C22 This product is NEC-2017 sect	. 1741-SA) .1741/IEEE1547, FCC .2 NO. 107.1-01 I UL Listed as PV Raj ion 690.12 and C22. ctors, when installed	pid Shut Down Equ 1-2015 Rule 64-21

No enforced DC/AC ratio. See the compatibility calculator at <u>https://enphase.com/en-us/support/module-comp</u>
 Nominal voltage range can be extended beyond nominal if required by the utility.
 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

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UL

SAFETY US-CA E341165

2-2-US	
) W +	(
72-cell PV modules	
otection required;	
circuit roinverter	
208 V /	
183-229 V	
V) 1.39 A (208 V)	
C) 11 (208 VAC)	
g 0.85 lagging	
@208 V 97.3 %	
97.0 %	
C-5 adapter) ymeric enclosure	
mencienciosure	
options.	
) Envoy. and approved by UL for use as the load-break	
B, ICES-0003 Class B,	
Equipment and conforms with NEC-2014 and I-218 Rapid Shutdown of PV Systems, for AC inufacturer's instructions.	
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PROJECT NAM RESIDENCE	473 WOOD POINT DRIVE	27546
ES	SR	
SHEET NAME INVERTER SPECIFICATION SHEET SIZE		N
ANSI B 11" X 17"		
SHEET NUMBER		

Data Sheet Enphase Networking

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

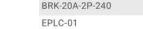
- Includes IQ Envoy for communication and control
- Flexible networking supports Wi-Fi, Ethernet, or cellular
- Optional AC receptacle available for PLC bridge
- Provides production metering and optional consumption monitoring

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



CT-200-SPLIT

Circuit Breakers BRK-10A-2-240 BRK-15A-2-240

MODEL NUMBER

XA-PLUG-120-3 XA-ENV-PCBA-3

ELECTRICAL SPECIFICATIONS

Enphase IQ Combiner 3

CELLMODEM-03 (4G / 12-year data plan)

IQ Combiner 3 X-IQ-AM1-240-3

Enphase Mobile Connect™

Consumption Monitoring* CT

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 Distri
Max. continuous current rating (input from PV)	64 A
Max. total branch circuit breaker rating (input)	80A of distributed generation / 90A wit
Production Metering CT	200 A solid core pre-installed and wire

ACCESSORIES and REPLACEMENT PARTS (not included, order separately)

Dimensions (WxHxD) 7.5 kg (16.5 lbs) Weight Ambient temperature range -40° C to +46° C (-40° to 115° F) Cooling Natural convection, plus heat shield Enclosure environmental rating Wire sizes

	 60 A breaker branch input: 4 to 1/0 AWG cop Main lug combined output: 10 to 2/0 AWG co Neutral and ground: 14 to 1/0 copper conduct Always follow local code requirements for conduct
Altitude	To 2000 meters (6,560 feet)
INTERNET CONNECTION OPTION	IS
Integrated Wi-Fi	802.11b/g/n
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet of
Cellular	Optional, CELLMODEM-01 (3G) or CELLMODEN (not included)
COMPLIANCE	
Compliance, Combiner	UL 1741 CAN/CSA C22.2 No. 107.1 47 CFR, Part 15, Class B, ICES 003 Production metering: ANSI C12.20 accuracy cla
Compliance, IQ Envoy	UL 60601-1/CANCSA 22.2 No. 61010-1

* Consumption monitoring is required for Enphase Storage Systems.

To learn more about Enphase offerings, visit enphase.com

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IQ Combiner 3 with Enphase IQ Envoy^w printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and optional* consumption monitoring (+/- 2.5%).

Plug and play industrial grade cellular modem with data plan for systems up to 60 CELLMODEM-01 (3G / 5-year data plan) microinverters. (Available in the US, Canada, Mexico, Puerto Rick CELLMODEM-M1 (4G based LTE-M / 5-year data plan) where there is adequate cellular service in the installation area.) microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands,

> Split core current transformers enable whole home consumption metering (+/- 2.5%). Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers.

Power line carrier (communication bridge pair), quantity 2

Circuit breaker, 2 pole, 10A, Eaton BR210

Circuit breaker, 2 pole, 15A, Eaton BR215

Circuit breaker, 2 pole, 20A, Eaton BR220

Accessory receptacle for Power Line Carrier in IQ Combiner 3 (required for EPLC-01) Replacement IQ Envoy printed circuit board (PCB) for Combiner 3

ributed Generation (DG) breakers only (not included)

ith IQ Envoy breaker included

ed to IQ Envoy

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 brackets).

Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction

· 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors pper conductors copper conductors ictors

nductor sizing.

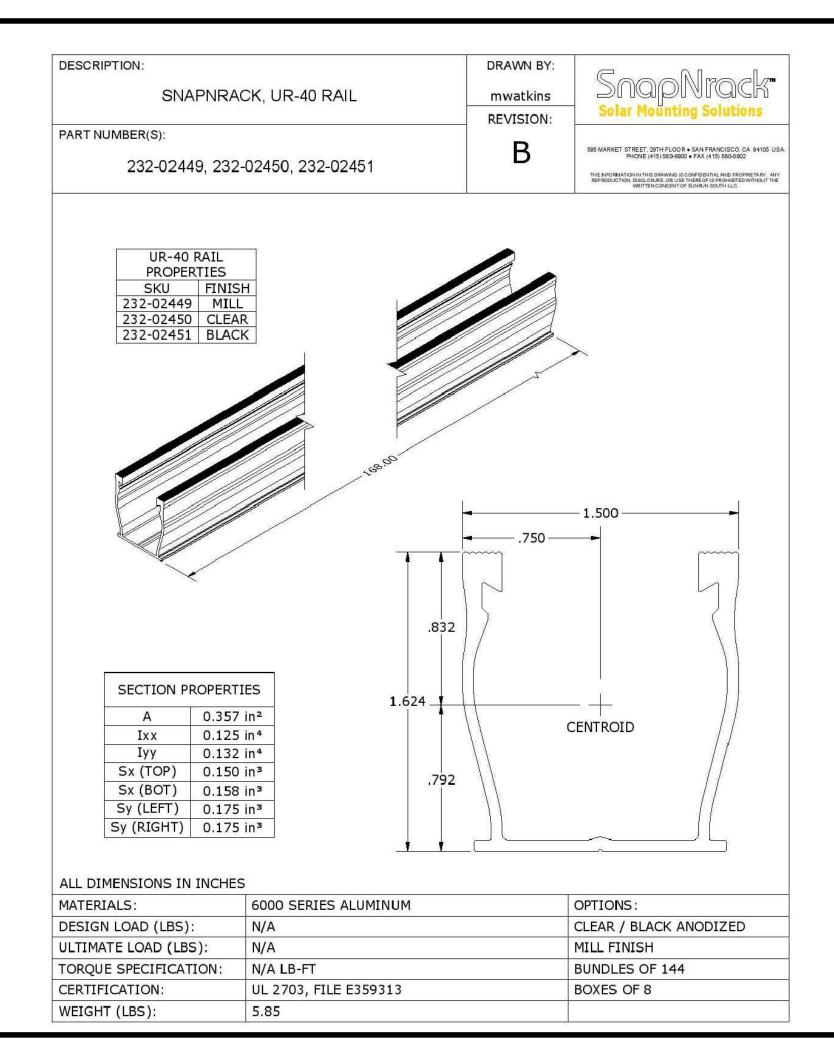
cable (not included)

M-03 (4G) or CELLMODEM-M1 (4G based LTE-M)

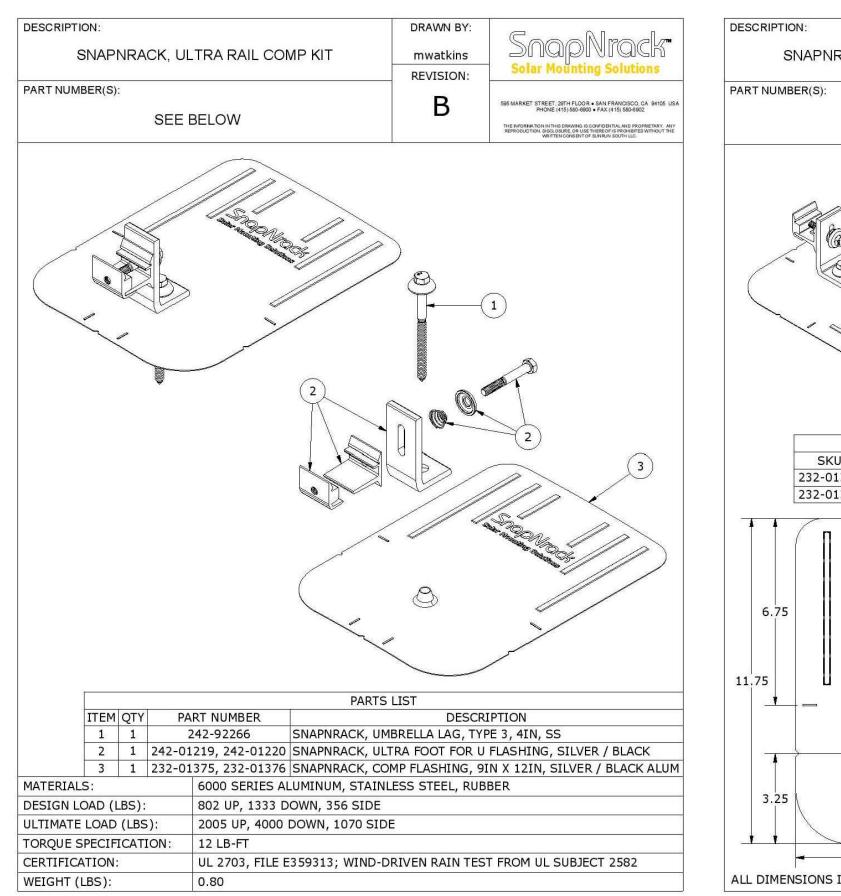
lass 0.5 (PV production)

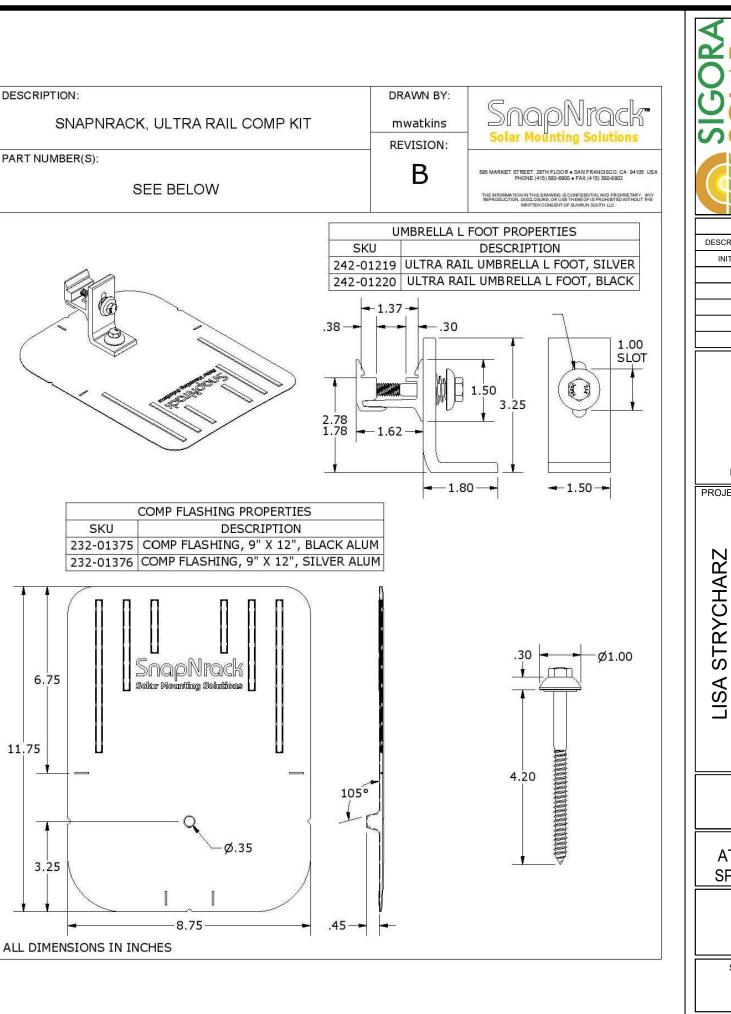
ENPHASE.

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ANSI B 11" X 17"		
PV		



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SIGORA SOLAR	SIGORA SOLAR LLC 490 WESTFIELD RD STE A	CHARLOTTESVILLE, VA 22901
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	NUMBER	



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

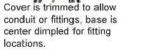
Model SD 0786-41 6" Slotted Din Rail fastened using steel studs

- **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.



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

REVIS DESCRIPTION INITIAL	SIGORA SOLAR LLC 940 WESTFIELD RD STE A	
DATE:0	7/21/2021 //E & ADDRI	ESS
LISA STRYCHARZ RESIDENCE	473 WOOD POINT DRIVE,	LILLINGION, NC 27546
DRAWN BY ESR		
SHEET NAME SOLADECK SPECIFICATION SHEET SIZE		
ANSI B 11" X 17"		
SHEET NUMBER PV-12		