

January 11, 2022 revised March 16, 2022

Sigora Solar LLC 490 Westfield Road STE A Charlottesville, VA 22901

> Re: Engineering Services Kadish Residence 429 Highgrove Drive, Spring Lake, NC 16.400 kW System

To Whom It May Concern:

We have received information regarding solar panel installation on the roof of the above referenced structure. Our evaluation of the structure is to verify the existing capacity of the roof system and its ability to support the additional loads imposed by the proposed solar system.

#### A. Site Assessment Information

- 1. Site visit documentation identifying attic information including size and spacing of framing for the existing roof structure.
- Design drawings of the proposed system including a site plan, roof plan and connection details for the solar panels. This information will be utilized for approval and construction of the proposed system.

### B. Description of Structure:

Roof Framing:2 x 6 dimensional lumber at 14" on center.Roof Material:Composite Asphalt ShinglesRoof Slope:45 degreesAttic Access:AccessibleLumber type:Assumed Doulas FirFoundation:Permanent

### C. Loading Criteria Used

- Dead Load
  - Existing Roofing and framing = 7 psf
  - New Solar Panels and Racking = 3 psf
  - TOTAL = 10 PSF
- Live Load = 20 psf (reducible) 0 psf at locations of solar panels
- Ground Snow Load = 10 psf
- Wind Load based on ASCE 7-16
  - Ultimate Wind Speed = 120 mph (based on Risk Category II)
  - Exposure Category C

Analysis performed of the existing roof structure utilizing the above loading criteria is in accordance with the North Carolina Residential Code (2018), including provisions allowing existing structures to not require strengthening if the new loads do not exceed existing design loads by 105% for gravity elements and 110% for seismic elements. This analysis indicates that the existing framing will support the additional panel loading without damage, if installed correctly.

## D. Solar Panel Anchorage

- 1. The solar panels shall be mounted in accordance with the most recent SnapNRack installation manual. 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. The maximum allowable withdrawal force for a <sup>5</sup>/<sub>16</sub>" lag screw is 235 lbs per inch of penetration as identified in the National Design Standards (NDS) of timber construction specifications. Based on a minimum penetration depth of 2½", the allowable capacity per connection is greater than the design withdrawal force (demand). Considering the variable factors for the existing roof framing and installation tolerances, the connection using one <sup>5</sup>/<sub>16</sub>" diameter lag screw with a minimum of 2½" embedment will be adequate and will include a sufficient factor of safety.
- 3. Considering the wind speed, roof slopes, size and spacing of framing members, and condition of the roof, the panel supports shall be placed no greater than 48" on centers.
- 4. Panel supports connections shall be staggered to distribute load to adjacent framing members.

Based on the above evaluation, this office certifies that with the racking and mounting specified, the existing roof system will adequately support the additional loading imposed by the solar system. This evaluation is in conformance with the North Carolina Residential Code, current industry standards, and is based on information supplied to us at the time of this report.

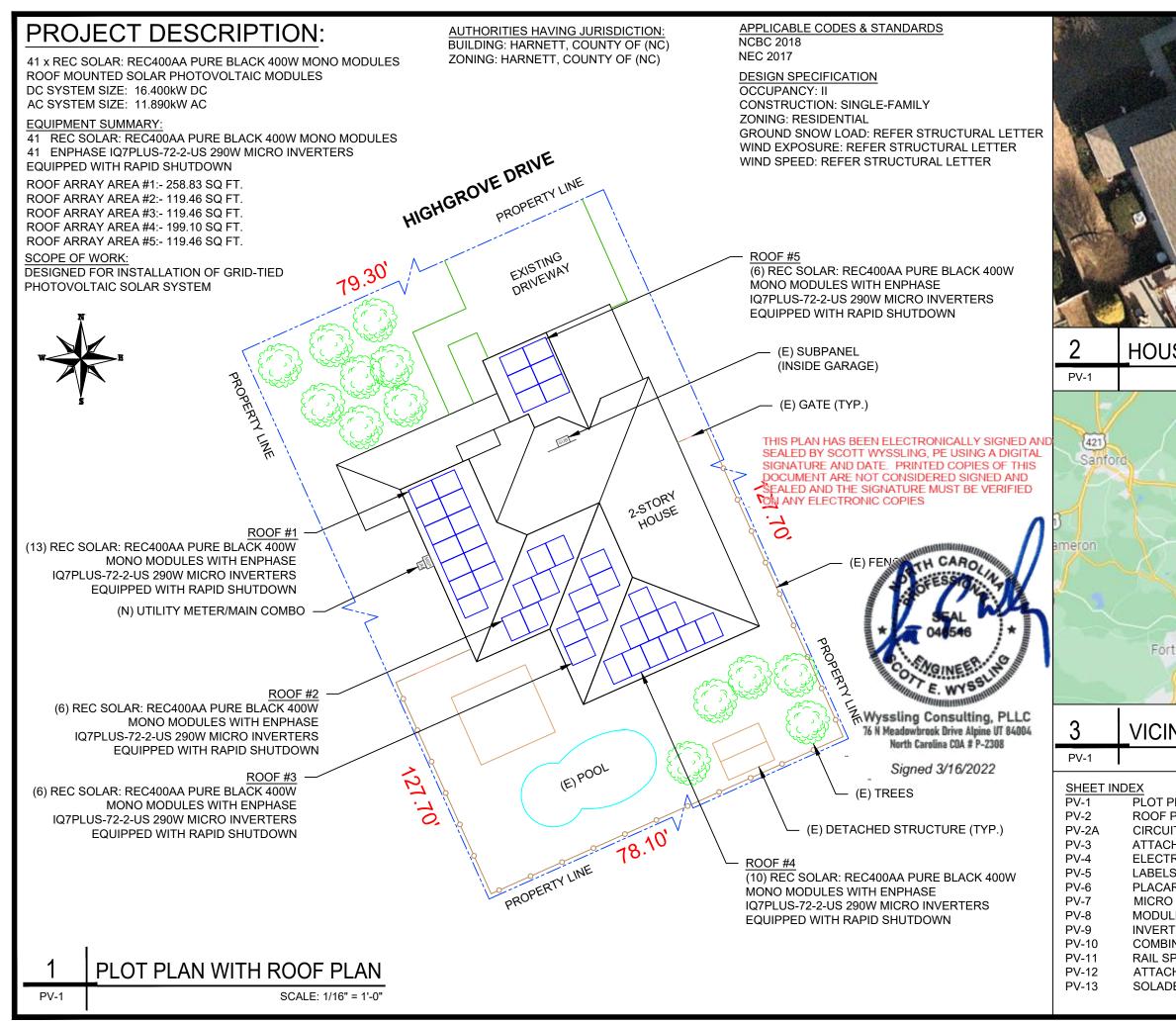
Should you have any questions regarding the above or if you require further information do not hesitate to contact me.

Scott E. Wyssling, PE North Carolina Licen (1990). 46546

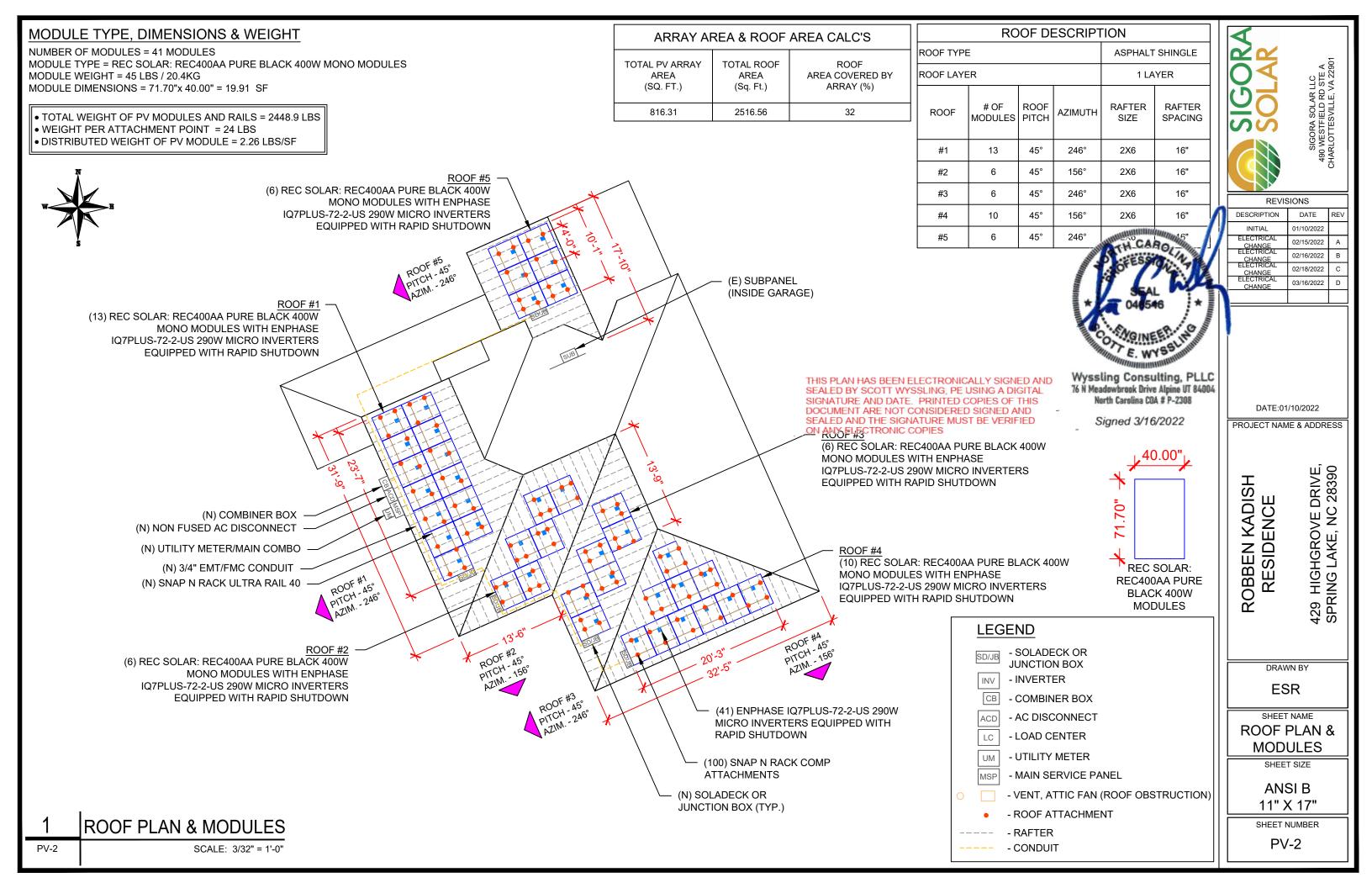


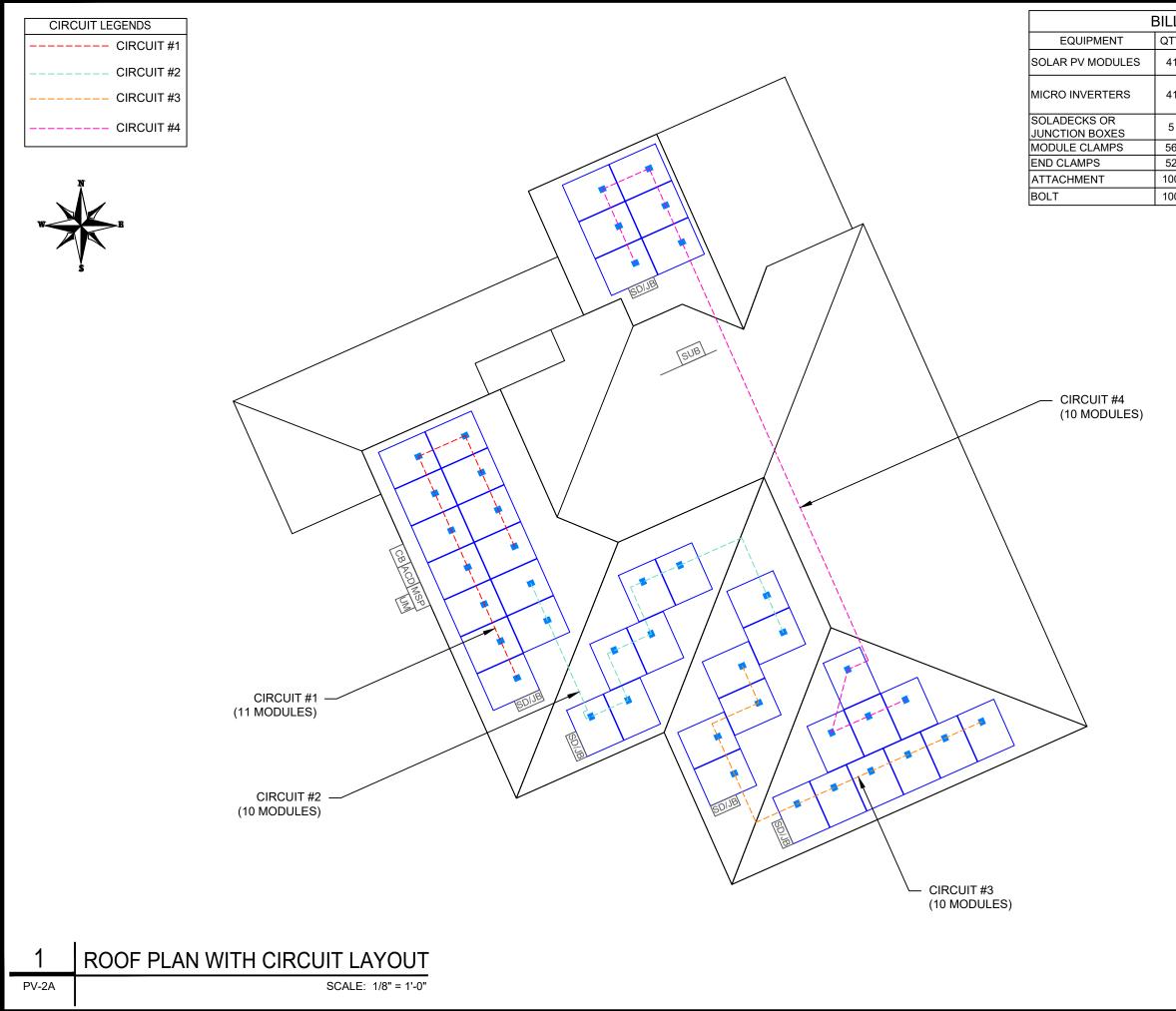
Wyssling Consulting, PLLC 76 N Meadowbrook Drive Alpine UT 84004 COA # P-2308





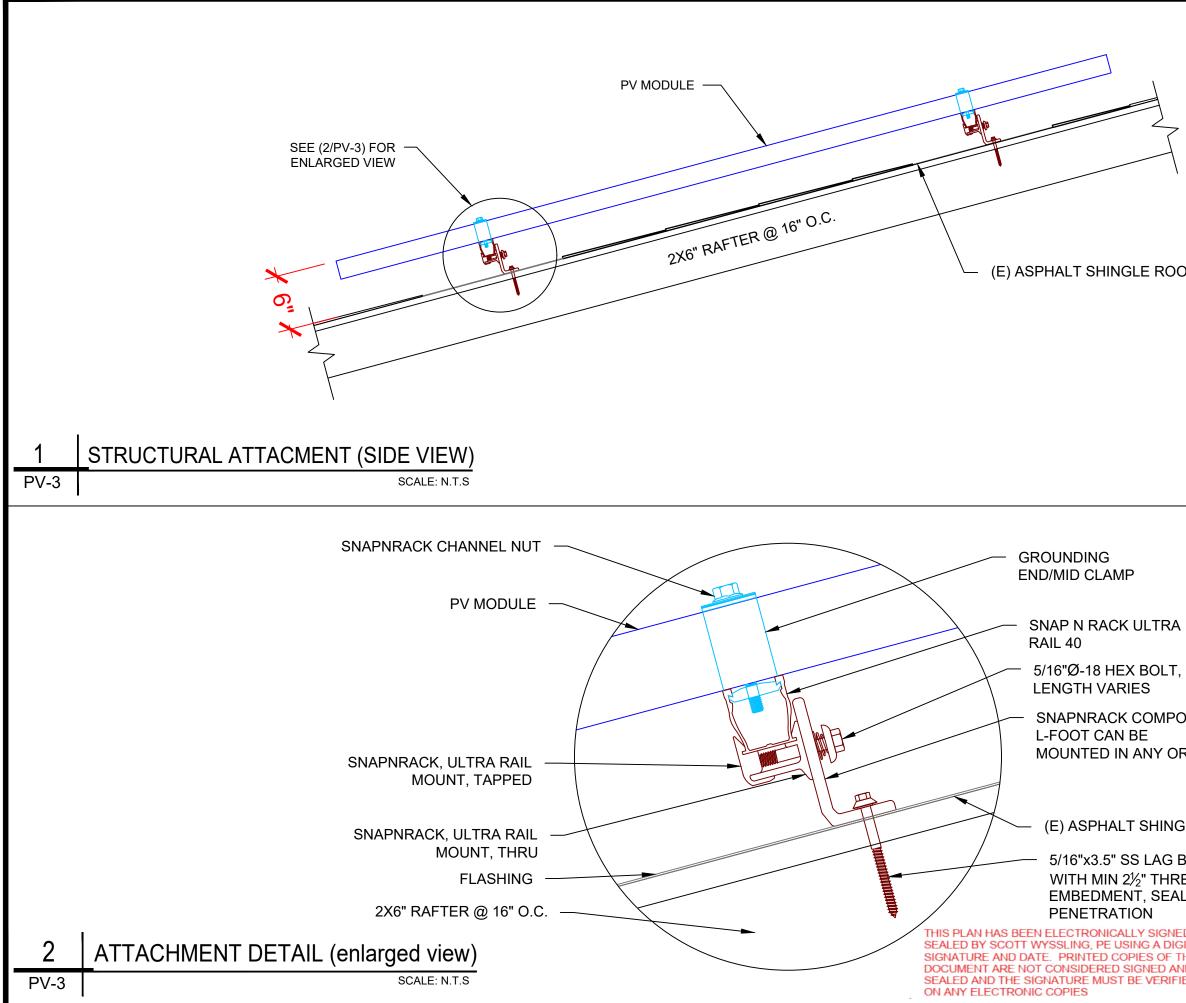
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L	OF MATERIALS
TΥ	DESCRIPTION
1	REC SOLAR: REC400AA PURE BLACK 400W
1	ENPHASE IQ7PLUS-72-2-US 290W MICRO INVERTERS EQUIPPED WITH RAPID SHUTDOWN
5	SOLADECKS OR JUNCTION BOXES
6	MID MODULE CLAMPS
2	END CLAMPS / STOPPER SLEEVE
00	SNAP N RACK COMP
00	LAG BOLT

	SIGORA SOLAR LLC 490 WESTFIELD RD STE A	CHARLOTTESVILLE, VA 22901
DESCRIPTION	DATE	REV
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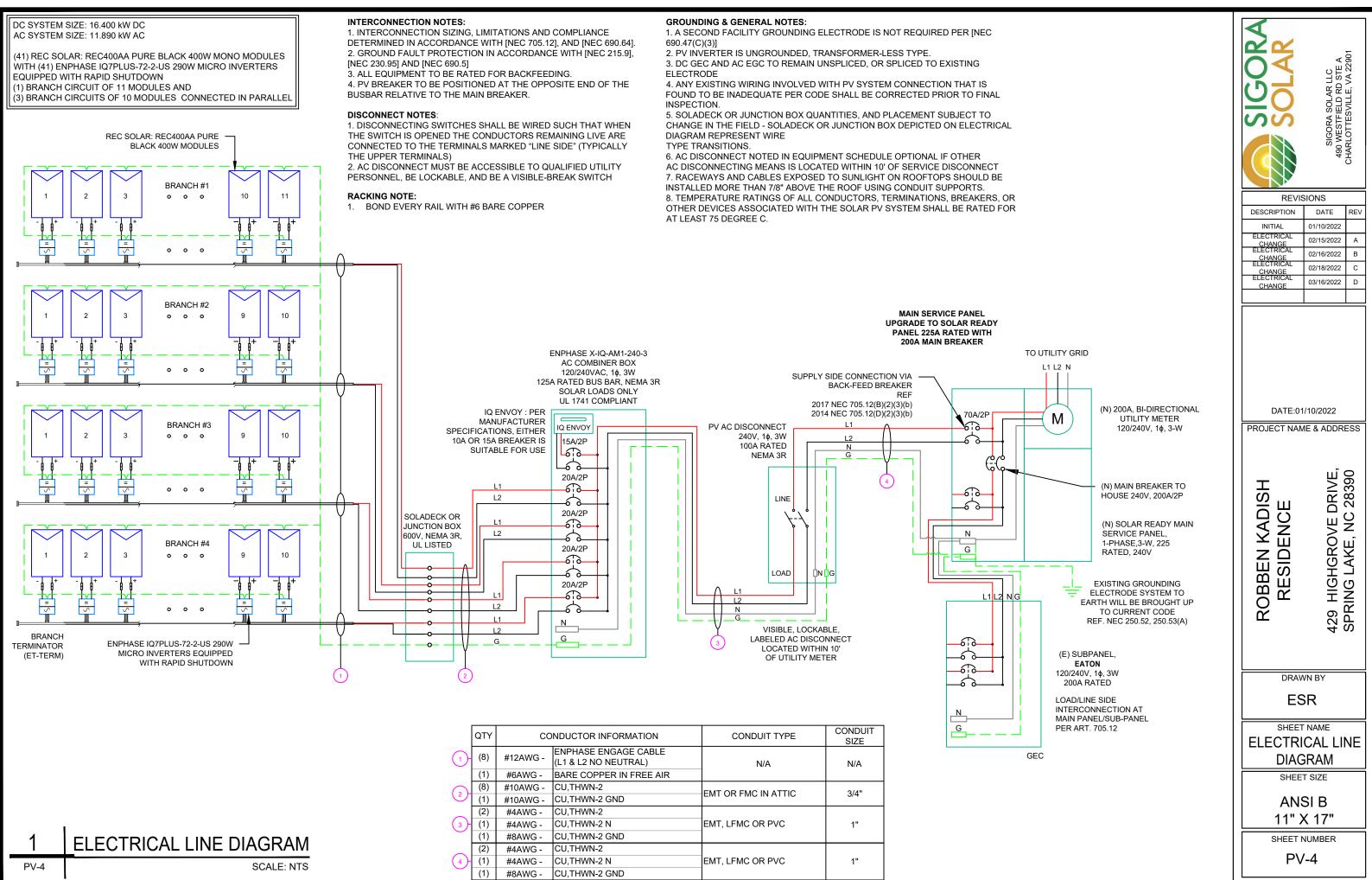
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ND Signed 3/16/2022	PV	-3	
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#### DC SYSTEM SIZE: 16.400 kW DC AC SYSTEM SIZE: 11.890 kW AC

WITH (41) ENPHASE IQ7PLUS-72-2-US 290W MICRO INVERTERS EQUIPPED WITH RAPID SHUTDOWN (1) BRANCH CIRCUIT OF 11 MODULES AND

2. GROUND FAULT PROTECTION IN ACCORDANCE WITH [NEC 215.9],

690.47(C)(3)]



# WARNING: PHOTOVOLTAIC **POWER SOURCE**

## LABEL 1

AT DIRECT-CURRENT EXPOSED RACEWAYS, CABLE TRAYS, COVERS AND ENCLOSURES OF JUNCTION BOXES, AND OTHER WIRING METHODS; SPACED AT MAXIMUM 10FT SECTION OR WHERE SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS.

NEC 690.31(G)(3&4) (NOT USED FOR ENPHASE MICROINVERTERS)

## PHOTOVOLTAIC

## LABEL 2

DCDISONNECT

AT EACH PV DISCONNECTING MEANS NEC 690.13(B) (NOT USED FOR ENPHASE MICROINVERTERS)

# WARNING INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

# WARNING: DUAL POWER SOURCE

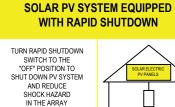
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

### MAXIMUM VOLTAGE MAXIMUM CIRCUIT CURRENT MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER FINSTALLED)

LABEL 3

AT DC PV SYSTEM DISCONNECTING MEANS

NEC 690.53 (NOT USED FOR ENPHASE MICROINVERTERS)



### PHOTOVOLTAIC

## LABEL 4

AT AC DISCONNECTING MEANS NEC 690.13(B)

AC DISONNECT

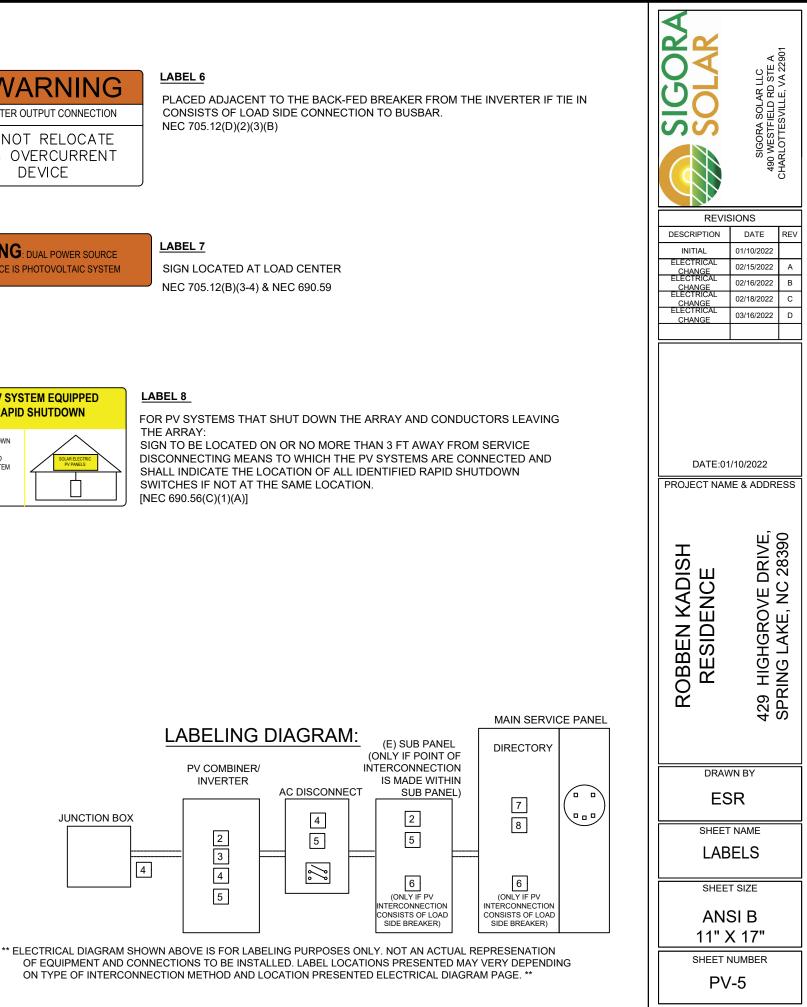
#### PHOTOVOLTAIC AC DISCONNECT RATED AC OUTPUT CURRENT: 49.61A 240V NOMINAL OPERATING AC VOLTAGE

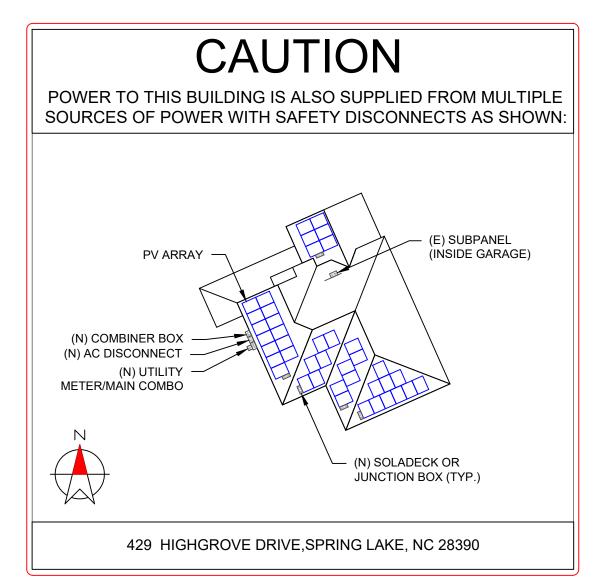
LABEL 5 AT AC DISCONNECTING MEANS NEC 690.54

41 MICROS X 1.21 AMP/MICRO = 49.61AMP

#### 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]

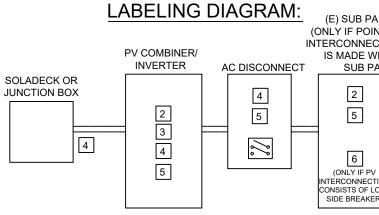




## DIRECTORY

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])



(ONLY IF PV

LABELING NOTES:

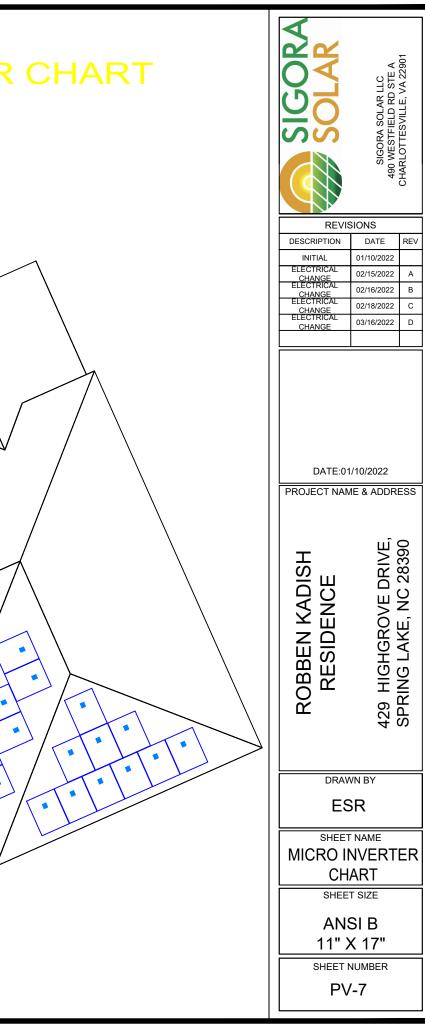
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5. LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND; REFLECTIVE, AND PERMANENTLY AFFIXED [IFC 605.11.1.1]

\*\* ELECTRICAL DIAGRAM SHOWN ABOVE IS FOR LABELING PURPOSES ONLY. NOT AN A OF EQUIPMENT AND CONNECTIONS TO BE INSTALLED. LABEL LOCATIONS PRESENT ON TYPE OF INTERCONNECTION METHOD AND LOCATION PRESENTED ELECTRICAL

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SOLAR'S MOST TRUSTED





400wp 20.3<sup>w</sup>/<sub>FT<sup>2</sup></sub>





EXPERIENCE



C ALPHA PURE BLACK SERIES : 1821±2.5 [71.7±0.1] 28 [1.1] 901 [35.5] 460 [18.1] 1 (+) 1100 [43.3] 0± [0.24±0.01] ±0.1] [40 1016±2.5 [-C; 11±0.2 (0.43±0.01) 20.5+0.5 [0.8±0.02] 1200 [47.2] — 1 22.5 [0.9] 671 ±3 [26.4 ±0.12] 45 [1.8] 30 [1.2] Measurements in mm [in]

eneral DATA

Cell type:	132 half-cut REC heterojunction cells with lead-free, gapless technology 6 strings of 22 cells in series	Connectors:	StäubliMC4PV-KBT4/KST4,12AWG(4mm²) in accordance with IEC 62852 IP68 only when connected
Glass:	0.13 in (3.2 mm) solar glass with anti-reflection surface treatment	Cable:	12AWG (4mm²) PV wire, 43+ 47 in (1.1+1.2m) accordance with EN 50618
Backsheet:	Highly resistant polymer (black)	Dimensions:	71.7 x 40 x 1.2 in (1821 x 1016 x 30 mm)
Frame:	Anodized aluminum (black)	Weight:	45 lbs (20.5 kg)
Junction box:	3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790	Origin:	Made in Singapore

P ELECTRICAL DATA Product Code*: RECxxxAA Pure Black					e Black	
	Power Output - P <sub>MAX</sub> (Wp)	385	390	395	400	405
	Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5
	Nominal Power Voltage - V <sub>MPP</sub> (V)	41.2	41.5	41.8	42.1	42.4
J	Nominal Power Current - I <sub>MPP</sub> (A)	9.35	9.40	9.45	9.51	9.56
5	Open Circuit Voltage - V <sub>oc</sub> (V)	48.5	48.6	48.7	48.8	48.9
	Short Circuit Current - I <sub>sc</sub> (A)	9.99	10.03	10.07	10.10	10.14
	Power Density (W/sq ft)	19.3	19.6	19.8	20.1	20.3
	Panel Efficiency (%)	20.8	21.1	21.3	21.6	21.9
	Power Output - P <sub>MAX</sub> (Wp)	293	297	301	305	309
	Nominal Power Voltage - V <sub>MPP</sub> (V)	38.8	39.1	39.4	39.7	40.0
	Nominal Power Current - I <sub>MPP</sub> (A)	7.55	7.59	7.63	7.68	7.72
	Open Circuit Voltage - V <sub>oc</sub> (V)	45.7	45.8	45.9	46.0	46.1
	Short Circuit Current - I <sub>sc</sub> (A)	8.07	8.10	8.13	8.16	8.19
	Values at standard test conditions (STC air mass AM1	5 irradiance 10.75 W/ca	ft (1000 \//m2) tr	mporaturo 77ºE (	25°C) bacadana	production

Values at standard test conditions (STC: air mass AM 1.5, irradiance 10.75 W/sq ft (1000 W/m²), temperature 77°F (25°C), based on a production spread with a tolerance of P<sub>MXV</sub> V<sub>GC</sub> &I<sub>gC</sub> ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 68°F (20°C), windspeed 3.3 ft/s(1 m/s), \*Where xxx indicates the nominal power class (P<sub>MXV</sub>) at STC above.

Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.

# PRODUCT SPECIFICATIONS

#### CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 61730 (Pending) ISO 14001:2004, ISO 9001:2015, OHSAS 18001:2007, IEC 62941



### WARRANTY

	Standard	REC ProTrust		
Installed by an REC Certified Solar Professional	No	Yes	Yes	
System Size	All	≤25 kW	25-500 kW	
Product Warranty (yrs)	20	25	25	
Power Warranty (yrs)	25	25	25	
Labor Warranty (yrs)	0	25	10	
Power in Year 1	98%	98%	98%	
Annual Degradation	0.25%	0.25%	0.25%	
Power in Year 25	92%	92%	92%	

See warranty documents for details. Conditions apply

#### MAXIMUM RATINGS

Operational temperature:	-40+185°F (-40+85°C)
Maximum system voltage:	1000 V
Maximum test load (front):	+ 7000 Pa (146 lbs/sq ft)*
Maximum test load (rear):	- 4000 Pa (83.5 lbs/sq ft)*
Max series fuse rating:	25 A
Max reverse current:	25 A
*See installatio	on manual for mounting instructions

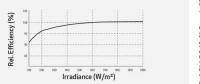
Design load = Test load / 1.5 (safety factor)

#### **P**TEMPERATURE RATINGS\*

Nominal Module Operating Temperature:	44°C(±2°C)
Temperature coefficient of P <sub>MAX</sub> :	-0.26 %/°C
Temperature coefficient of $V_{oc}$ :	-0.24 %/°C
Temperature coefficient of I <sub>sc</sub> :	0.04 %/°C
"The temperature coefficients stat	ed are linear value

#### LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:





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ANSI B 11" X 17" SHEET NUMBER PV-8				

Data Sheet Enphase Microinverters Region: AMERICAS

# Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready Enphase IQ 7 Micro<sup>™</sup> and Enphase IQ 7+ Micro<sup>™</sup> 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<sup>™</sup>, Enphase IQ Battery<sup>™</sup>, and the Enphase Enlighten<sup>™</sup> 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 <sup>1</sup>	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 <sup>2</sup>	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 <sup>3</sup>	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 -
FEATURES	and the second	a na kana na kata 2009 tan	
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-compa</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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To learn more about Enphase offerings, visit enphase.com

CERTIFIED SAFETY US-CA E341165

-2-US
N + 2-cell PV modules
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183-229 V
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97.0 %
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nd approved by UL for use as the load-break
, ICES-0003 Class B,
quipment and conforms with NEC-2014 and
218 Rapid Shutdown of PV Systems, for AC ufacturer's instructions.
atibility.

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Data Sheet Enphase Networking

# Enphase **IQ Combiner 3**

(X-IQ-AM1-240-3)

The Enphase IQ Combiner 3<sup>™</sup> with Enphase IQ Envoy<sup>™</sup> 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



MODEL NUMBER

**Enphase IQ Combiner 3** 

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

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

Enphase Mobile Connect™

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)

Weight Ambient temperature range Cooling Enclosure environmental rating Wire sizes

	<ul> <li>60 A breaker branch input: 4 to 1/0 AWG cop</li> <li>Main lug combined output: 10 to 2/0 AWG co</li> <li>Neutral and ground: 14 to 1/0 copper conduct</li> <li>Always follow local code requirements for conduct</li> </ul>
Altitude	To 2000 meters (6,560 feet)
INTERNET CONNECTION OPTION	s
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

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.) 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 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 BR215 BRK-20A-2P-240 Circuit breaker, 2 pole, 20A, Eaton BR220 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 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). Dimensions (WxHxD) 7.5 kg (16.5 lbs) -40° C to +46° C (-40° to 115° F) Natural convection, plus heat shield 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) UL 60601-1/CANCSA 22.2 No. 61010-1 Compliance, IQ Envoy \* Consumption monitoring is required for Enphase Storage Systems. To learn more about Enphase offerings, visit enphase.com © 2018 Enphase Energy. All rights reserved. All trademarks or brands in this document are registered by their respective owner. ENPHASE. 2018-09-13

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

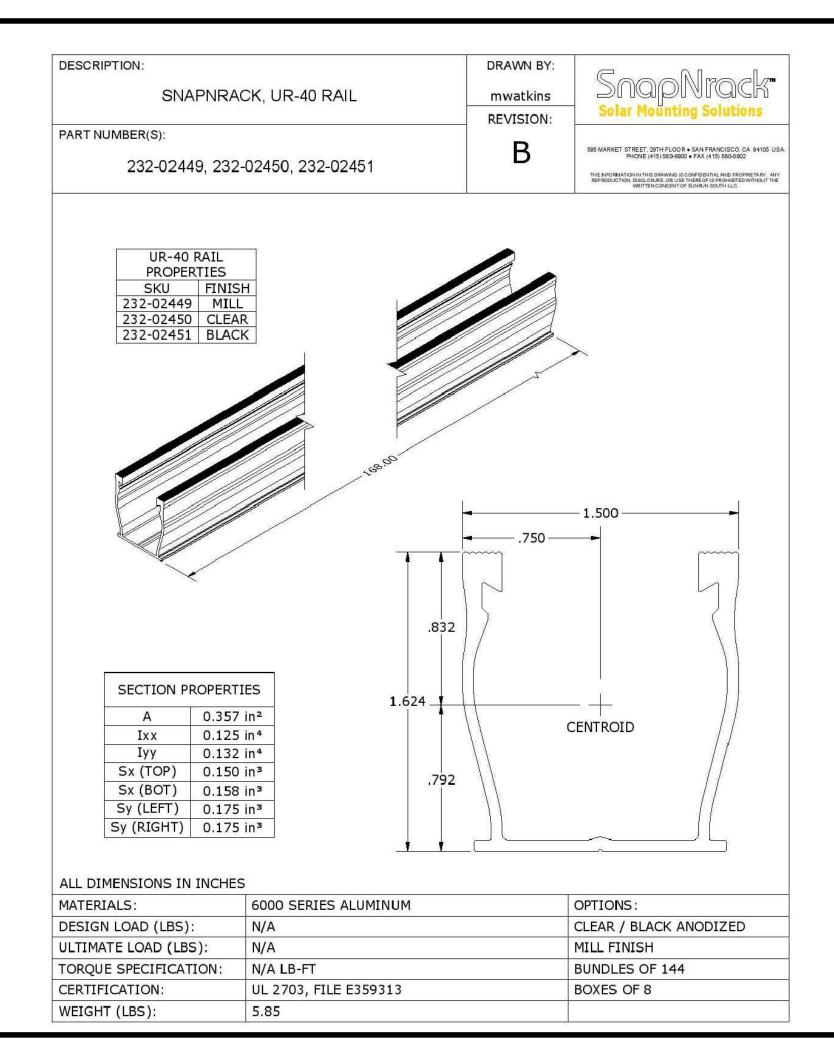
microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands,

Plug and play industrial grade cellular modem with data plan for systems up to 60

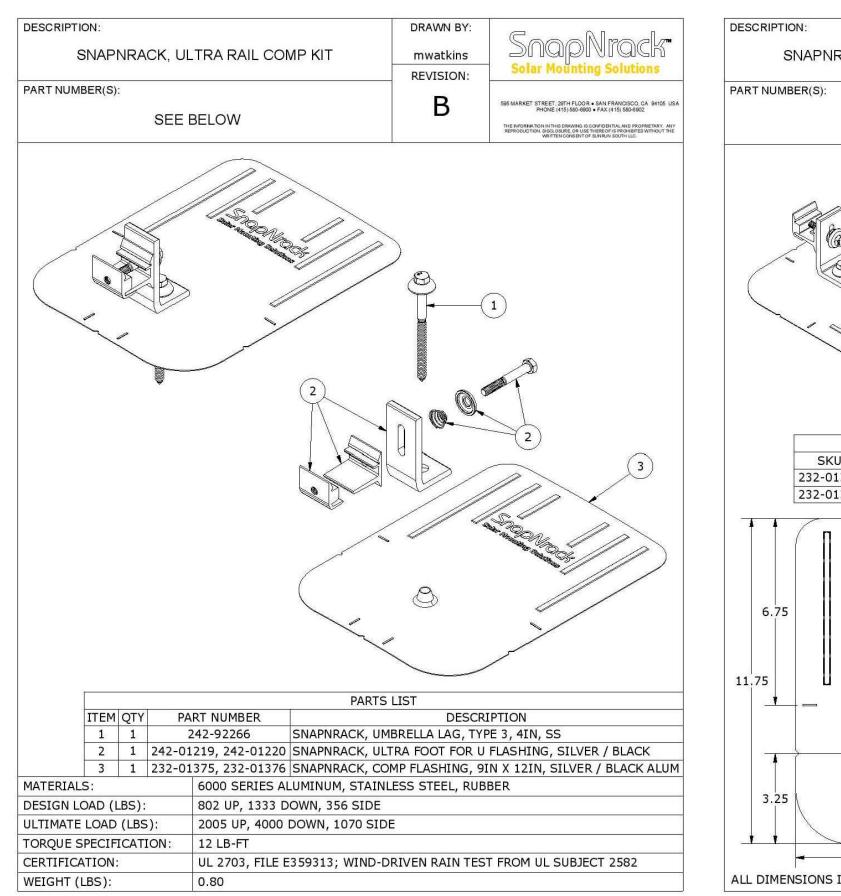


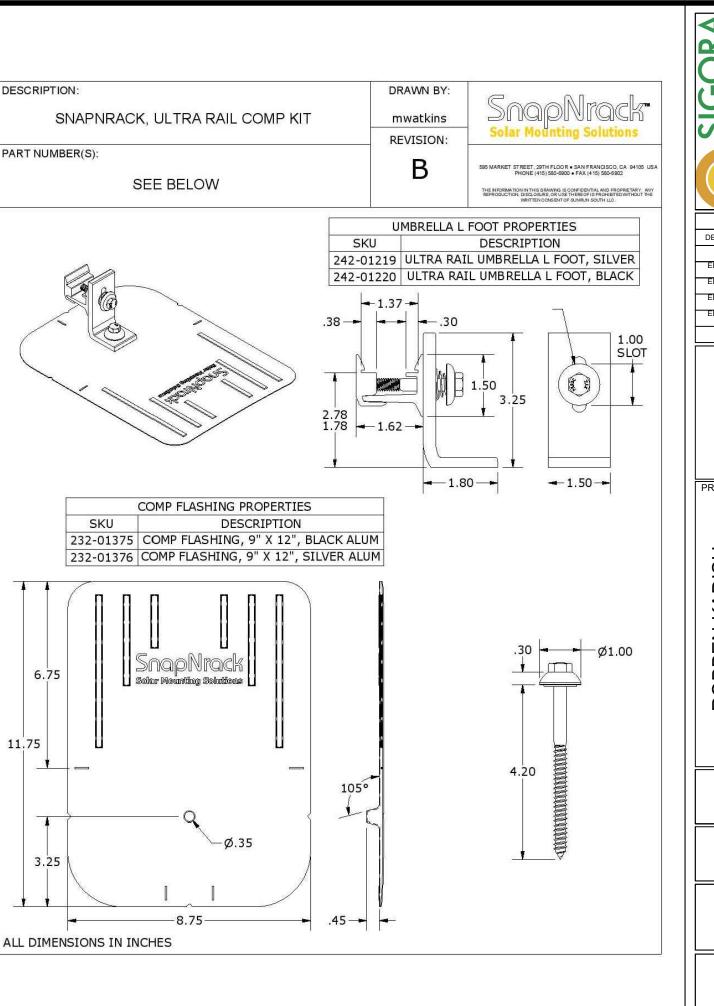


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SHEET NAME ATTACHMENT SPECIFICATION SHEET SIZE		
ANSI B 11" X 17" SHEET NUMBER		
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### **Basic Features**

- 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

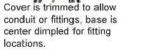
Model SD 0786-41 6" Slotted Din Rail fastened using steel studs

- \*\*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

DESCRIPTION DATE REV INITIAL 01/10/2022 ELECTRICAL 02/15/2022 A ELECTRICAL 02/16/2022 B ELECTRICAL 02/16/2022 C ELECTRICAL 03/16/2022 D CHANGE 03/16/2022 D DATE:01/10/2022 PROJECT NAME & ADDRESS HSIQX JON SHEET NAME SOLADECK SPECIFICATION SHEET NIZE ANSI B 11" X 17" SHEET NUMBER PV-13		SIC 490 W	CHARLOTTESVILLE, VA 22901
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