

Scott E. Wyssling, PE 76 North Meadowbrook Drive

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

August 16, 2021

Sigora Solar 1222 Harris Street Charlottesville, VA 22903

Re:

Engineering Services Soutar Residence 443 Highgrove Drive, Spring Lake NC 12.045 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 16" 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

- 119 MPH wind loading based on ASCE 7-10 Exposure Category "C" at a slope of 39 degrees
- 7 PSF = Dead Load roofing/framing Live Load = 20 PSF Snow Load = 10 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 (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 $\frac{1}{2}$ 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.
- Considering the roof slopes, the size, spacing, condition of roof, the panel supports shall be placed 3. no greater than 48" o/c.
- Panel supports connections shall be staggered to distribute load to adjacent trusses. 4.

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.

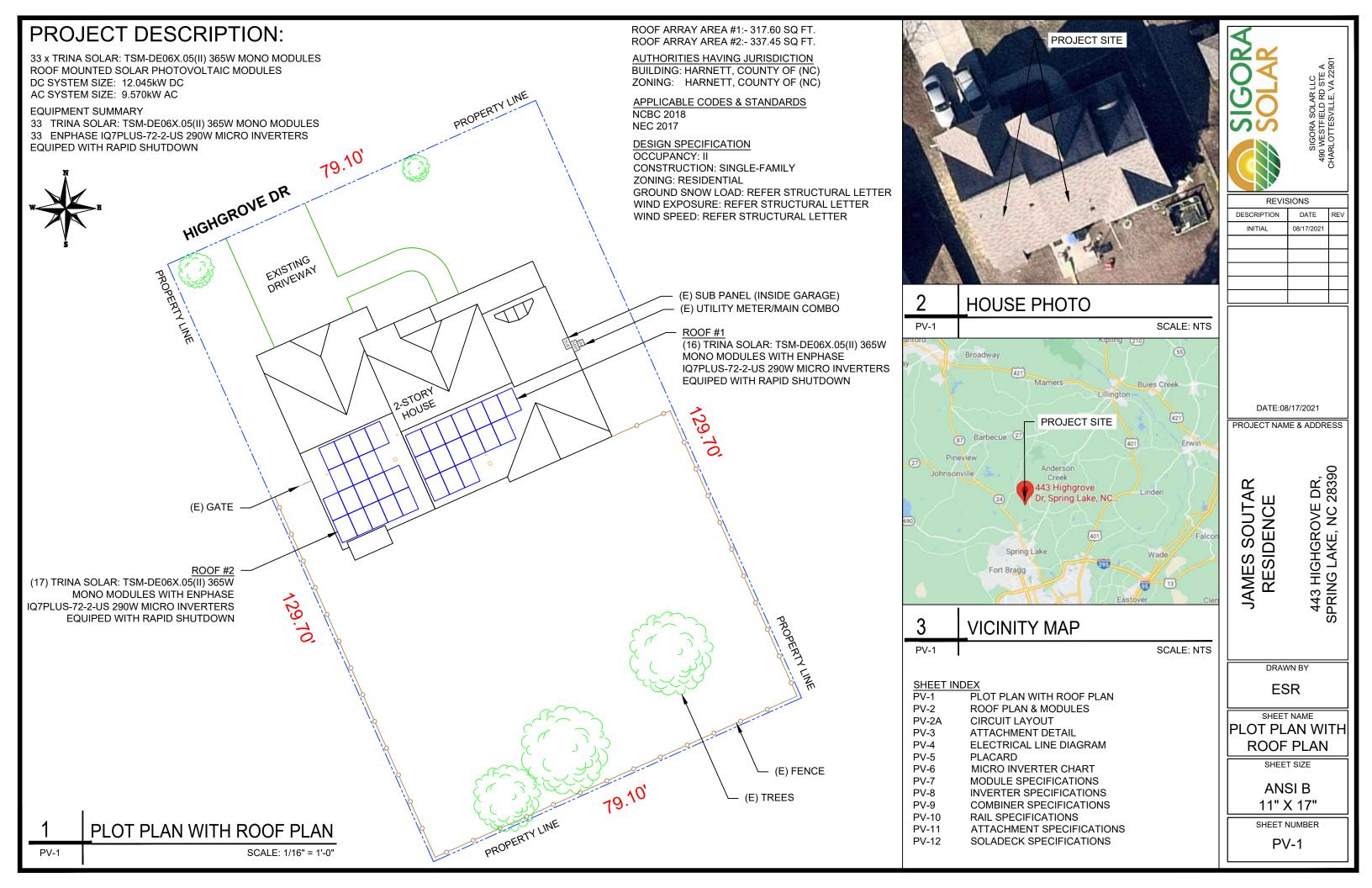
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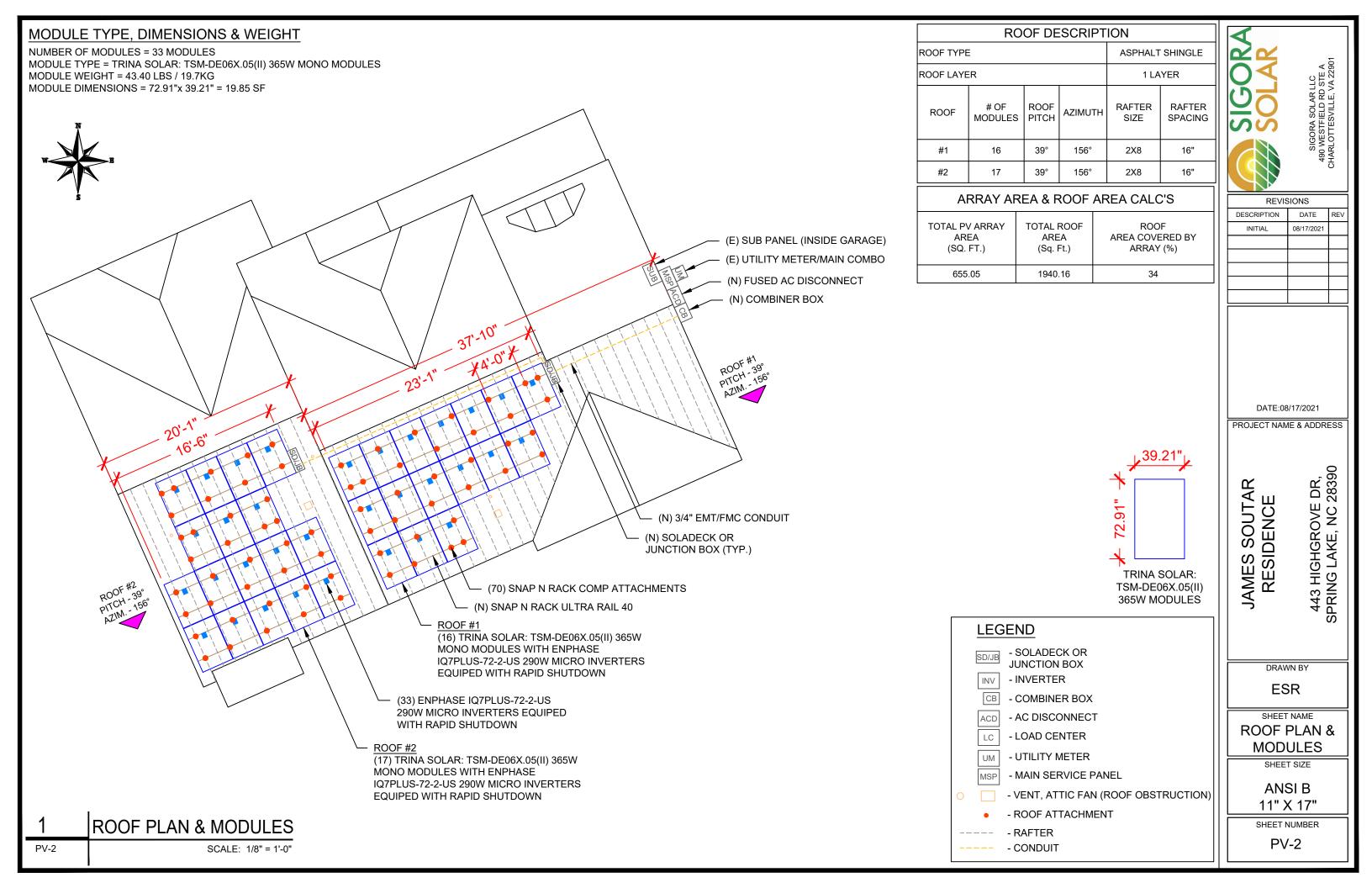
Scott E. Wyssling, PE North Carolina Licen 46546

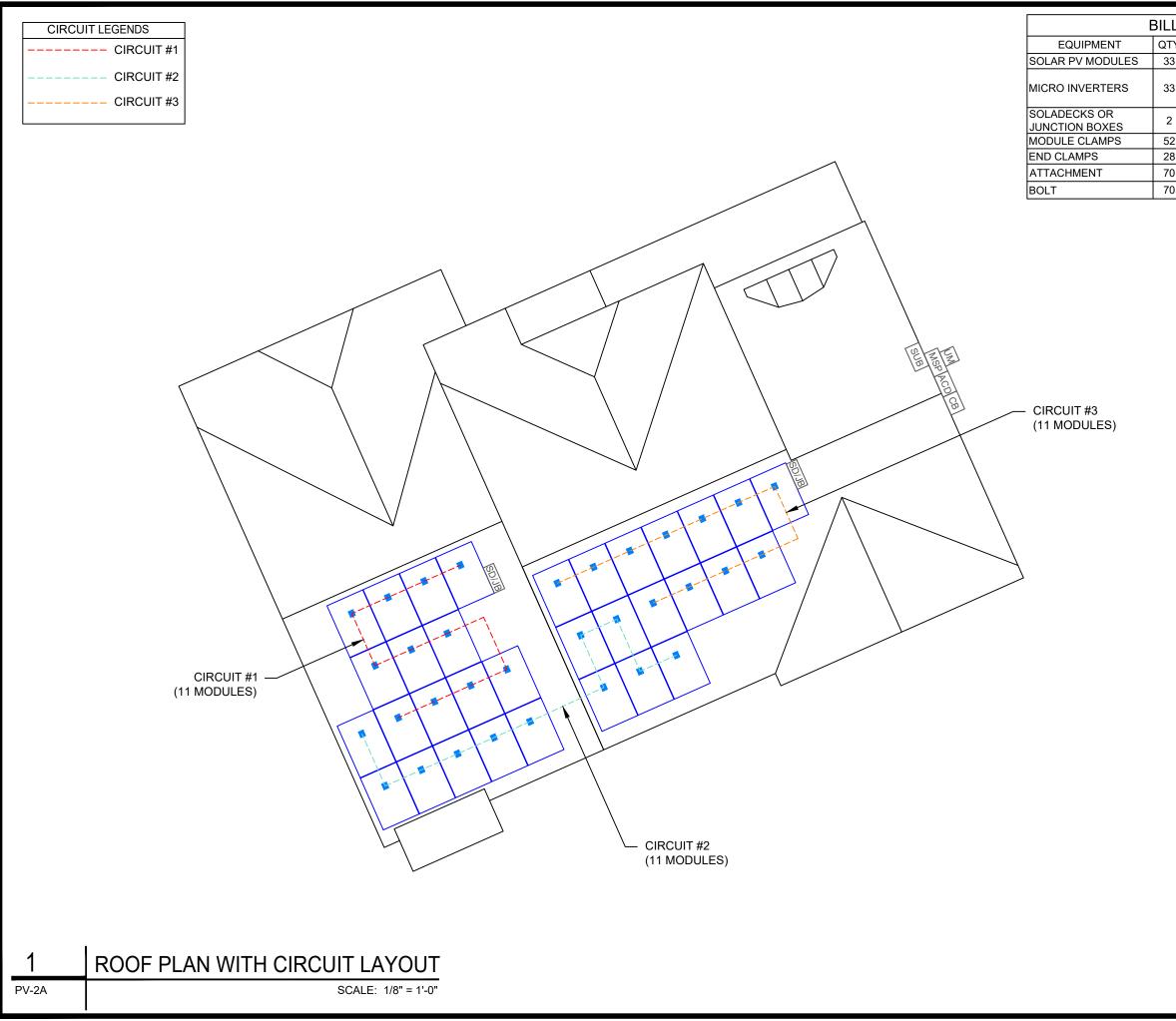


North Carolina Firm License No. 46546



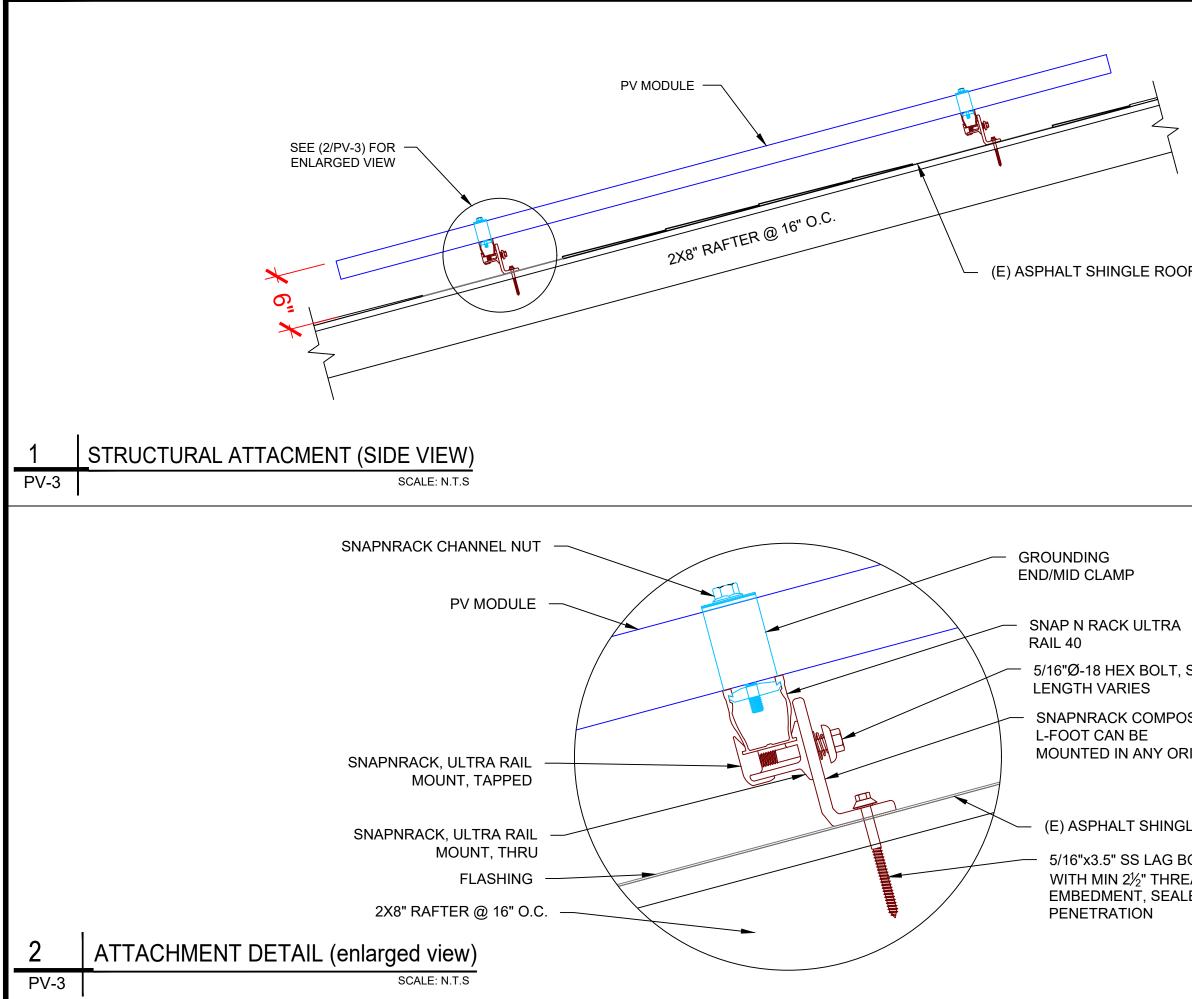




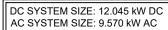


L	OF MATERIALS
TΥ	DESCRIPTION
3	TRINA SOLAR: TSM-DE06X.05(II) 365W
3	ENPHASE IQ7PLUS-72-2-US 290W MICRO INVERTERS EQUIPED WITH RAPID SHUTDOWN
2	SOLADECKS OR JUNCTION BOXES
2	MID MODULE CLAMPS
8	END CLAMPS / STOPPER SLEEVE
0	SNAP N RACK COMP
0	LAG BOLT

	SIGORA SOLAR LLC 490 WESTFIELD RD STE A	CHARLOTTESVILLE, VA 22901				
DESCRIPTION	DATE	REV				
INITIAL	08/17/2021					
JAMES SOUTAR RESIDENCE	/E DR,	IC 28390				
ES						
CIRC						
	SHEET SIZE ANSI B 11" X 17"					
	K 17"					

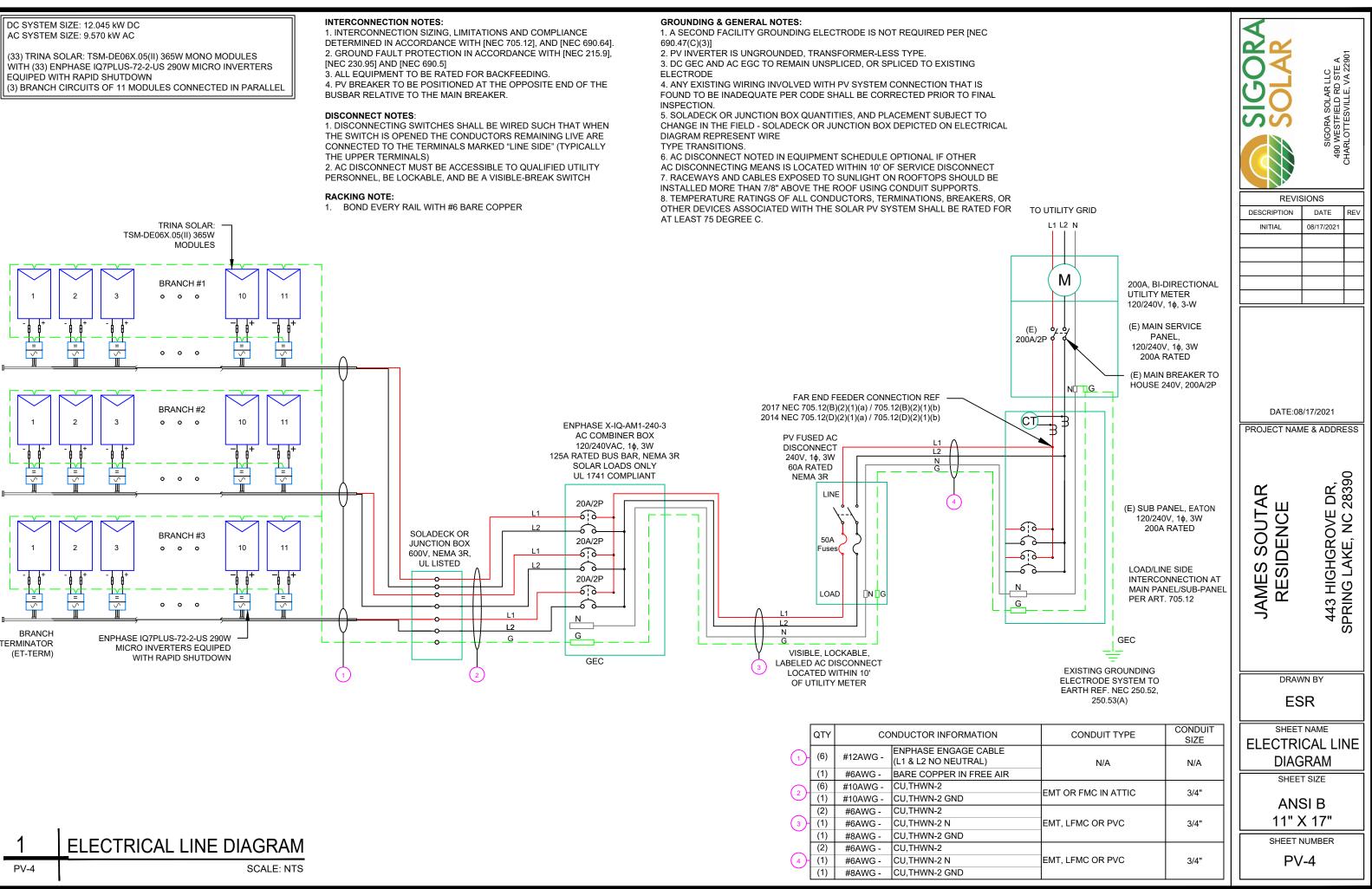


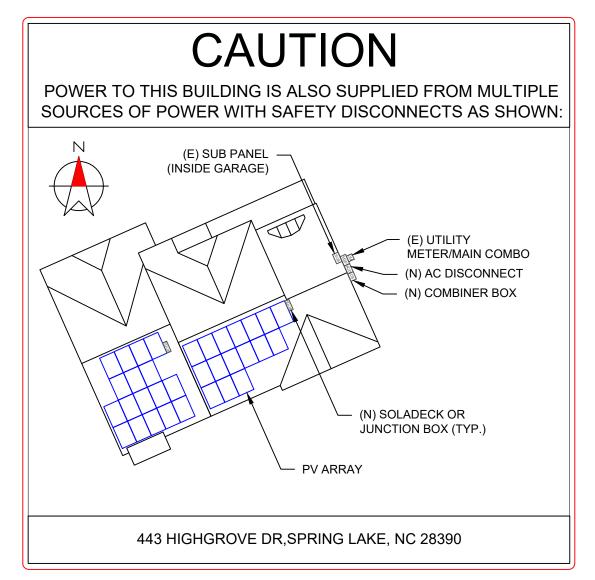
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	DESCRIPTION	DATE REV
	INITIAL	08/17/2021
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S.S. SITION IENTATION	JAMES SOUTAR RESIDENCE	443 HIGHGROVE DR, SPRING LAKE, NC 28390
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	ATTAC	HMENT
OLT	DE	TAIL
AD	SHEE	T SIZE
ED	AN	SI B K 17"
	SHEET	NUMBER
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(33) TRINA SOLAR: TSM-DE06X.05(II) 365W MONO MODULES WITH (33) ENPHASE IQ7PLUS-72-2-US 290W MICRO INVERTERS EQUIPED WITH RAPID SHUTDOWN

AC DISCONNECTING MEANS IS LOCATED WITHIN 10' OF SERVICE DISCONNECT 7. RACEWAYS AND CABLES EXPOSED TO SUNLIGHT ON ROOFTOPS SHOULD BE INSTALLED MORE THAN 7/8" ABOVE THE ROOF USING CONDUIT SUPPORTS.

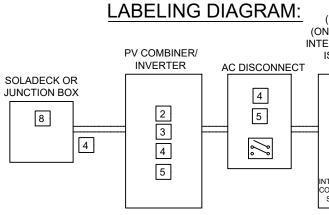




DIRECTORY

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])

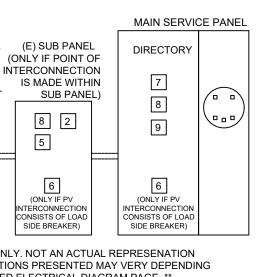


LABELING NOTES:

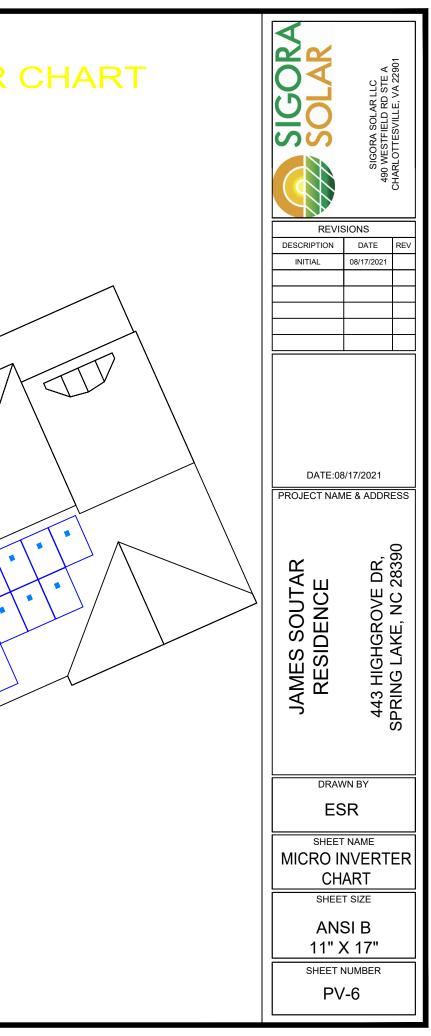
- 1. LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS. ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
- 2. LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRIC CODE, OSHA STANDARD 19010.145, ANSI Z535.
- 3. MATERIAL 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 REPRESENATION OF EQUIPMENT AND CONNECTIONS TO BE INSTALLED. LABEL LOCATIONS PRESENTED MAY VERY DEPENDING ON TYPE OF INTERCONNECTION METHOD AND LOCATION PRESENTED ELECTRICAL DIAGRAM PAGE. **

SHEET N PV		PLAC	ES	JAMES SOUTAR RESIDENCE	DATE:08		REVIS DESCRIPTION	SIGORA SOLAR
NUMBER 7-5	SI B 17"		R	443 HIGHGROVE DR, 443 HIGHGROVE DR,		08/17/2021	BIONS DATE	SIGORA SOLAR LLC 490 WESTFIELD RD STE A
				IC 28390			REV	CHARLOTTESVILLE, VA 22901



	1-10	11-20	21-30	31-40	41-50	51-60	61-70	
1								MICRO INVERTER
2								
3								
4								
5								
6								
7								
8								
9								
10								



THE

Residential Module

MULTI-BUSBAR MONO PERC MODULE

132-Cell MONOCRYSTALLINE MODULE

 PRODUCTS
 POWER RANGE

 TSM-DE06X.05(II)
 355-380W



355-380W POWER OUTPUT RANGE

20.6% MAXIMUM EFFICIENCY



Founded in 1997, Trina Solar is the world's leading total solution provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable brand. Trina Solar now distributes its PV products to over 100 countries all over the world. We are committed to building strategic, mutually beneficial collaborations with installers, developers, distributors and other partners in driving smart energy together.

Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716/UL61730 ISO9001: Quality Management System ISO14001: Environmental Management System ISO14064: Greenhouse Gases Emissions Verification OHSAS 18001: Occupation Health and Safety Management System





High power and High Efficiency

 Up to 380W front power and 20.6% module efficiency with half-cut and MBB (Multi Busbar) technology bringing more BOS savings
 Reduce BOS cost with higher power bin and 1500V system voltage

Outstanding visual appearance

Designed with aesthetics in mind
High standard Production, Excellent cell color control by dedicated cell blackening treatment and machine selection

• Thinner wires that appear all black at a distance

High reliability

Ensured PID resistance through cell process and module material control
Resistant to salt, acid and ammonia

• Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load

Certified to withstand the most chanllenging environmental conditions

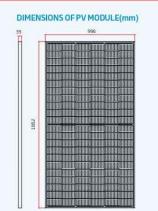
• Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization

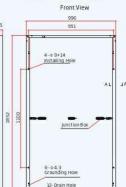
• Lower temp co-efficient (-0.34%) and NOCT bring more energy leading to lower LCOE

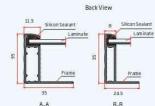
• Better anti-shading performance and lower operating temperature



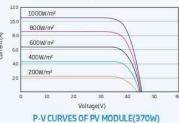
Residential Module

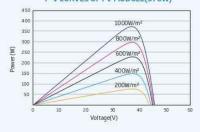














MULTI-BUSBAR MONO PERC MODULE

ELECTRICAL DATA (STC) Peak Power Watts-PMAX (Wp)* 355 360 Power Output Tolerance-PMAX (W) Maximum Power Voltage-V_{MPP}(V) 36.8 37.0 9.74 Maximum Power Current-Impp (A) 9.66 44.8 44.6 Open Circuit Voltage-Voc (V) 10.24 10.30 Short Circuit Current-Isc (A) Module Efficiency n m (%) 19.2 19.5 STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measurement tolerance: ± 3%.

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (Wp)	268	272	276	279	283	287
Maximum Power Voltage-V _{MPP} (V)	34.4	34.7	34.9	35.1	35.3	35.6
Maximum Power Current-I MPP (A)	7.80	7.85	7.90	7.96	8.01	8.06
Open Circuit Voltage-Voc (V)	42.0	42.2	42.4	42.6	42.6	42.8
Short Circuit Current-Isc (A)	8.25	8.30	8.34	8.38	8.42	8.47

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	132 cells
Module Dimensions	1852 × 996 × 35 mm
Weight	19.7 kg (43.4 lb)
Glass	3.2 mm (0.13 inches)
Encapsulant Material	EVA
Backsheet	Black-White
Frame	35 mm (inches) Ano
Ј-Вох	IP 68 rated
Cables	Photovoltaic Techno Portrait: N 280mm/F Landscape: N 1400
Connector	MC4 EVO2
Fire Type	Type 2
TEMPERATURE RATINGS	
NOCT(Nominal Operating Cell Temperature)	43°C(±2°C)

NOCT (Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of PMAX	- 0.34%/°C
Temperature Coefficient of $V_{\mbox{\scriptsize OC}}$	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C

WARRANTY

25 year Product Workmanship Warranty 25 year Linear Power Warranty

(Please refer to product warranty for details)

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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Version number: TSM_DE06X.05(II)_NA_2020_PA3 www.trinasolar.com

	365	370	375	380
	0~	+5		
)	37.2	37.4	37.6	37.8
ł	9.82	9.90	9.98	10.07
3	45.0	45.2	45.3	45.5
0	10.35	10.40	10.45	10.51
	19.8	20.1	20.3	20.6

m (72.91×39.21×1.38 inches)

s), High Transmission, AR Coated Heat Strengthened Glass

dized Aluminium Alloy

ology Cable 4.0mm² (0.006 inches²), /P 280mm(11.02/11.02inches)

) mm /P 1400 mm (55.12/55.12 inches)

MAXIM	UM	RATI	NGS

Operational Temperature Maximum System Voltage Max Series Fuse Rating -40~+85°C 1500V DC (IEC) 20A

PACKAGING CONFIGURATION

Modules per box: 31 pieces

Modules per 40' container: 744 pieces

	SOLAR LLC 400 WESTFIELD RD STE A CHARLOTTESVILLE, VA 22901						
	REVIS	SIONS					
	DESCRIPTION	DATE	REV				
	INITIAL	08/17/2021	Щ				
	DATE:08/17/2021 PROJECT NAME & ADDRESS RESIDENCE A43 HIGHGROVE DR, SPRING LAKE, NC 28390						
	ES						
			N				
1	11" >	SI B (17"					
	SHEET N PV	NUMBER '-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.



To learn more about Enphase offerings, visit enphase.com

Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US	1	IQ7PLUS-72-2
Commonly used module pairings ¹	235 W - 350 W	/ +	235 W - 440 W -
Module compatibility	60-cell PV mo	dules only	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	П		11
DC port backfeed current	0 A		0 A
PV array configuration		ded array; No additio ction requires max 20	
OUTPUT DATA (AC)	IQ 7 Microin	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	III		
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°	С	
Relative humidity range	4% to 100% (c	ondensing)	
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Ampl	nenol H4 UTX with ad	ditional Q-DCC-5
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without brack		
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 polyme
Environmental category / UV exposure rating	NEMA Type 6		1 1
FEATURES			
Communication	Power Line Co	ommunication (PLC)	
Monitoring		ager and MyEnlighte	n monitoring optic
		equire installation of	
Disconnecting means		C connectors have be quired by NEC 690.	en evaluated and
Compliance	CAN/CSA-C22 This product i NEC-2017 sec	L 1741-SA) L1741/IEEE1547, FCC 2.2 NO. 107.1-01 s UL Listed as PV Raj tion 690.12 and C22. ictors, 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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2-2-US
W +
72-cell PV modules
tection required;
ircuit oinverter
208 V /
183-229 V
V) 1.39 A (208 V)
) 11 (208 VAC)
0.85 lagging
@208 V 97.3 %
97.0 %
-5 adapter)
meric enclosure
ptions. Envoy.
nd approved by UL for use as the load-break
3, ICES-0003 Class B,
Equipment and conforms with NEC-2014 and 218 Rapid Shutdown of PV Systems, for AC nufacturer's instructions.
patibility

SIGORA SOLAR	SIGORA SOLAR 490 WESTFIELD RD	CHARLOTTESVILLE, VA 22901
	SIONS	
DESCRIPTION	DATE	REV
INITIAL	08/17/2021	
		\mid
DATE:08/17/2021 PROJECT NAME & ADDRESS AT HIGHGROVE DR, BABING LAKE, NC 283300 SPRING LAKE, NC 283300 SPRING LAKE MARKING LAKEN		
ESR		
SHEET NAME INVERTER SPECIFICATION SHEET SIZE ANSI B		N
11" X 17" SHEET NUMBER PV-8		

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



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	t included, order separately)
Enphase Mobile Connect [™] CELLMODEM-03 (4G / 12-year data plan) CELLMODEM-01 (3G / 5-year data plan) CELLMODEM-M1 (4G based LTE-M / 5-year data plan)	Plug and play industrial grade cellular modem 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 BR215 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)	64 A
Max. total branch circuit breaker rating (input)	80A of distributed generation / 90A with IQ Envoy breaker included
Production Metering CT	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 brackets).
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 Å breaker inputs: 14 to 4 AWG copper conductors 60 Å 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 Always 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-M) (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 class 0.5 (PV production)
Compliance, IQ Envoy	UL 60601-1/CANCSA 22.2 No. 61010-1
* Consumption monitoring is required for Enphase	Storage Systems

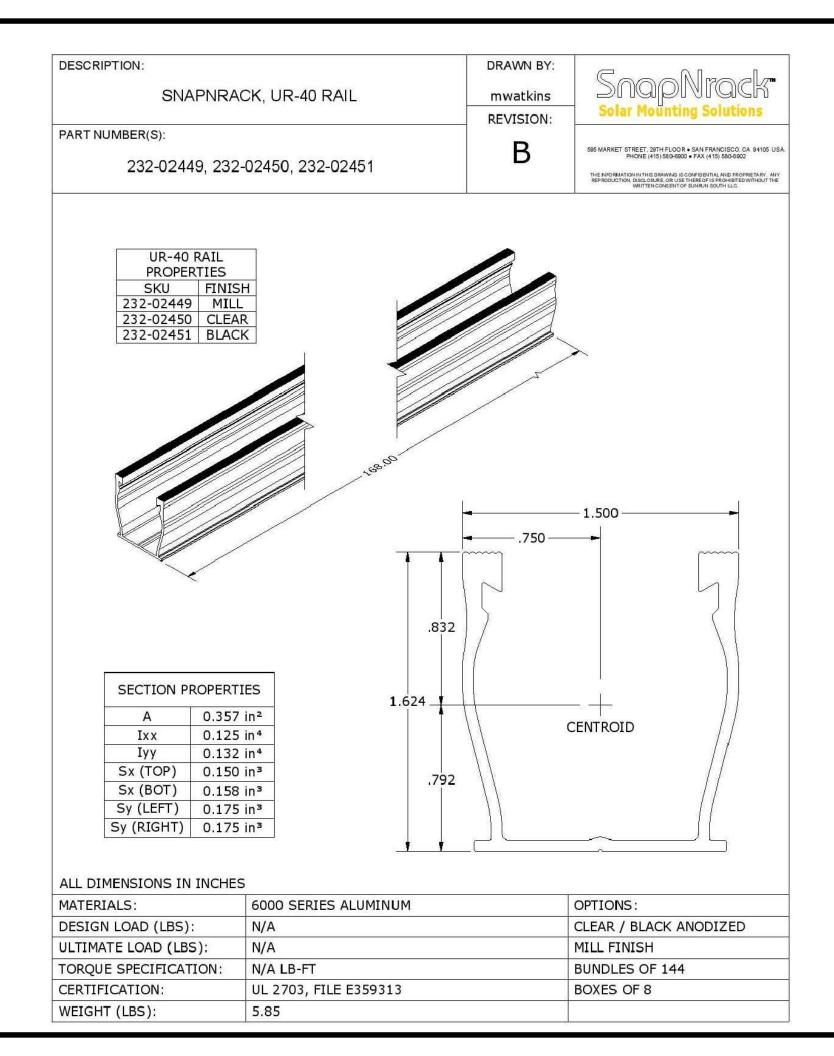
* Consumption monitoring is required for Enphase Storage Systems.

To learn more about Enphase offerings, visit enphase.com

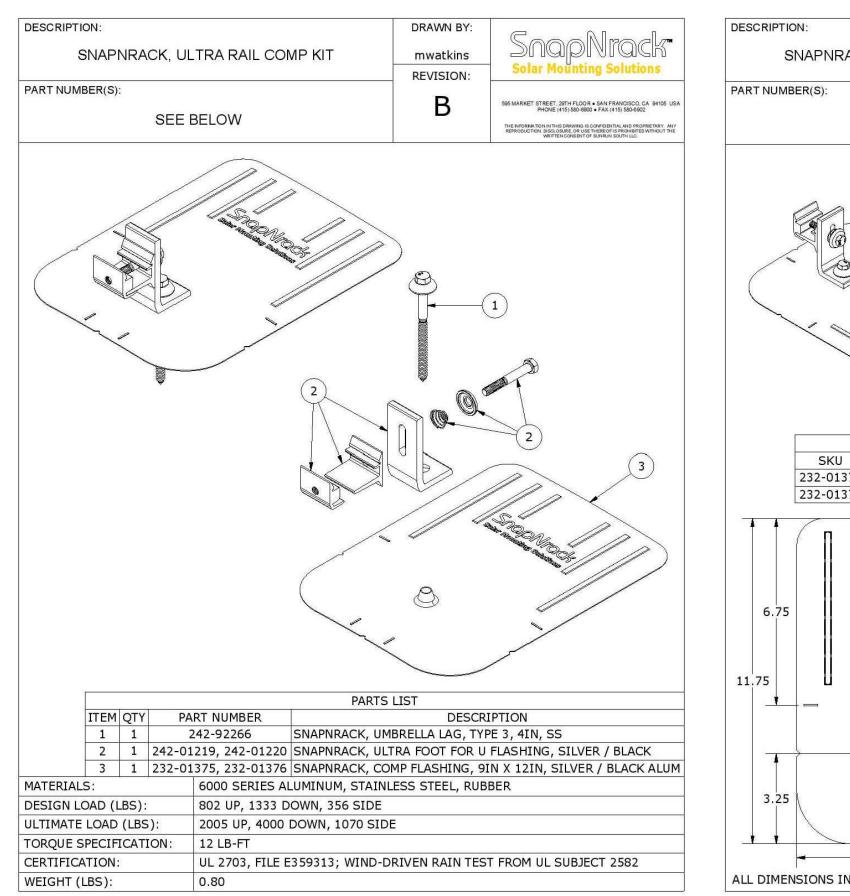
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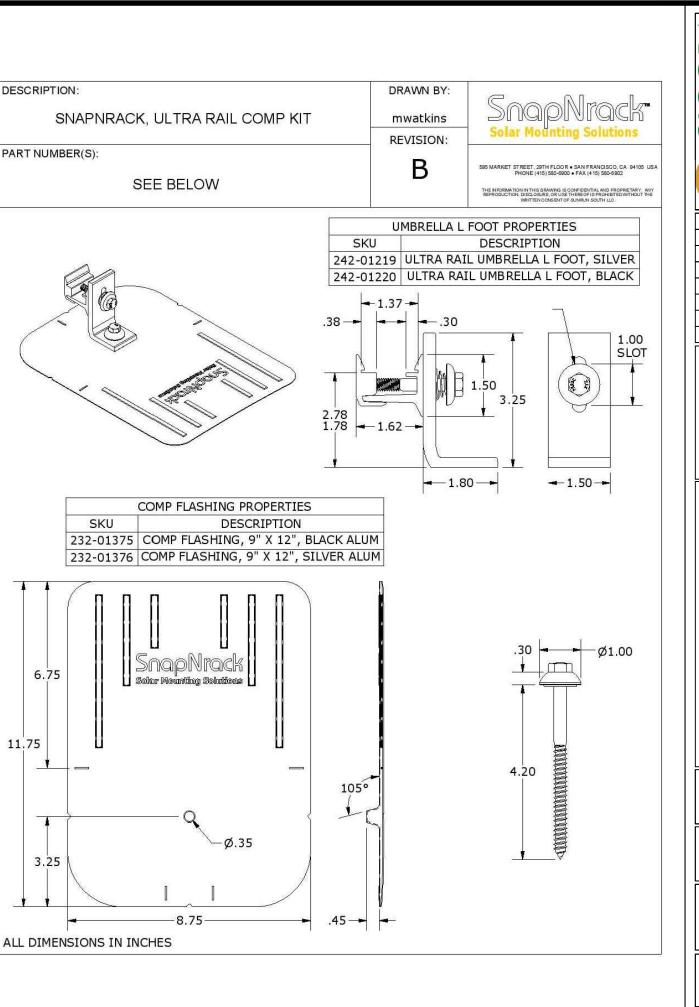
with data plan for systems up to 60 lexico, Puerto Rico, and the US Virgin Islands, installation area.) ome consumption metering (+/- 2.5%). BR240, BR250, and BR260 circuit breakers. , quantity 2 IQ Combiner 3 (required for EPLC-01) CB) for Combiner 3 eneration (DG) breakers only (not included) voy breaker included nvoy eight is 21.06" (53.5 cm with mounting brackets). rbonate construction pper conductors oper conductors opper conductors ctors ductor sizing. cable (not included) M-03 (4G) or CELLMODEM-M1 (4G based LTE-M)

SIGORA SOLAR	SIGORA SOLAR LLC 490 WESTFIELD RD STE A	CHARLOTTESVILLE, VA 22901
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SHEET ATTAC SPECIF		
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

REVIS DESCRIPTION INITIAL		
DATE:00 PROJECT NAM RESIDENCE	443 HIGHGROVE DR, WE & ADDRI	IC 28390
DRAWN BY ESR		
SHEET NAME SOLADECK SPECIFICATION SHEET SIZE ANSI B		
11" X 17" SHEET NUMBER PV-12		