# NEW PHOTOVOLTAIC SYSTEM 3.75 KW DC 81 FARROW CT, LINDEN, NC 28356

## GENERAL NOTES

## 1.1.1 PROJECT NOTES:

1.1.2 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.

- 1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION
- 1.1.4 GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE MICRO-INVERTER IN ACCORDANCE WITH NEC 690.41(B) 1.1.5 ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4: PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929, 519 COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
- 1.1.6 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
- 1.1.7 ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 690.4. SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING [NEC 110.3].
- 1.1.8 ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.

### 1.2.1 SCOPE OF WORK:

1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR ROOF-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT

## 1.3.1 WORK INCLUDES:

- 1.3.2 PV RACKING SYSTEM INSTALLATION UNIRAC SOLAR
- 1.3.3 PV MODULE AND INVERTER INSTALLATION LG ELECTRONICS LG375N1C-A6 / ENPHASE IQ7PLUS-72-2-US INVERTER
- 1.3.4 PV EQUIPMENT ROOF MOUNT
- 1.3.5 PV SYSTEM WIRING TO A ROOF-MOUNTED JUNCTION BOX
- 1.3.6 PV LOAD CENTERS (IF INCLUDED)
- 1.3.7 PV METERING/MONITORING (IF INCLUDED)
- 1.3.8 PV DISCONNECTS
- 1.3.9 PV GROUNDING ELECTRODE & BONDING TO (E) GEC
- 1.3.10 PV FINAL COMMISSIONING
- 1.3.11 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV
- 1.3.12 SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

## PROJECT INFORMATION

## **OWNER**

NAME: CHERIE HERNANDEZ

## PROJECT MANAGER NAME: SHAHIN HAYNES

PHONE: 8665071461

## **CONTRACTOR NAME**

MARC JONES CONSTRUCTION, LLC DBA SUNPRO SOLAR PHONE: 5052180838

## SCOPE OF WORK

SYSTEM SIZE: STC:10 X 375W= 3.75 kW DC PTC: 10 x 347.3W = 3.47 kW DC (10) LG ELECTRONICS LG375N1C-A6

(10) ENPHASE IQ7PLUS-72-2-US

## ATTACHMENT TYPE: ROOF MOUNT

MSP UPGRADE: NO

**UTILITY METER UPGRADE: NO** 

## **AUTHORITIES HAVING JURISDICTION**

BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: SOUTH RIVER ELECTRIC

METER NO: 96410102

## **DESIGN SPECIFICATION**

OCCUPANCY: I

CONSTRUCTION: SINGLE-FAMILY ZONING: RESIDENTIAL

GROUND SNOW LOAD: REFER STRUCTURAL LETTER WIND EXPOSURE: REFER STRUCTURAL LETTER

WIND SPEED:

REFER STRUCTURAL LETTER

## APPLICABLE CODES & STANDARDS

BUILDING: IBC 2015 / 2018NCBC, IRC 2015 / 2018NCRC

ELECTRICAL: NEC 2017

FIRE: IFC 2015 / 2018NCFC

## **VICINITY MAP**



## SATELLITE VIEW



## SHEET INDEX

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# SUNPR

22171 MCH RD MANDEVILLE, LA 70471

PHONE: 9152011490

PROJECT NAME & ADDRESS

CHERIE HERNANDEZ

## 81 FARROW CT,LINDEN, NC 28356

COUNTY:-HARNETT COUNTY

## SYSTEM SIZE

DC SIZE: 3.750 KW DC-(STC) AC SIZE: 2.900 KW AC

SHEET TITLE

## **COVER PAGE**

4	DRAWN DATE	10/29/2021
	DRAWN BY	SHREYAS

SHEET NUMBER

G-001

### 2.1.1 SITE NOTES:

- 2.1.2 A LADDER WILL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH CONVENTION IF THREE PHASE C OR L3- BLUE, OSHA REGULATIONS.
- 2.1.3 THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.
- 2.1.4 THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- 2.1.5 PROPERACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PERSECTION NEC 110.26.
- 2.1.6 ROOF COVERINGS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF COVERING SERVES TO PROTECT THE BUILDING OR STRUCTURE. 2.2.1 EQUIPMENT LOCATIONS:
- 2.2.2 ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY 2.5.5 EQUIPMENT GROUNDING CONDUCTORS SHALLBE SIZED NEC 110.26.
- 2.2.3 WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED MANUFACTORERS' INSTRUCTIONS. FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 2.5.6 EACH MODULE WILL BE GROUNDED USING WEEB (A),(C) AND NEC TABLES 310.15 (B)(2)(A) AND 310.15 (B)(3)(C).
- 2.2.4 JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34.
- 2.2.5 ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT. 2.2.6 ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES.
- 2.2.7 ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

## 2.3.1 STRUCTURAL NOTES:

- 2.3.2 RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES. AND RAILS MUSTALSO EXTEND A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY, ACCORDING TO RAI MANUFACTURER'S INSTRUCTIONS.
- 2.3.3 JUNCTION BOX WILL BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS.
- 2.3.4 ROOFTOP PENETRATIONS FOR PV RACEWAY WILLBE COMPLETED AND SEALED W/ APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.
- 2.3.5 ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER.
- 2.3.6 WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

## 2.4.1 WIRING & CONDUIT NOTES:

- 2.4.2 ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS AREBASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- 2.4.3 CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
- 2.4.4 VOLTAGE DROP LIMITED TO 1.5%.
- 2.4.5 DC WIRING LIMITED TO MODULE FOOTPRINT. MICROINVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY W/ SUITABLE WIRING CLIPS.

2.4.6 AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK PHASE B OR L2- RED. OR OTHER YELLOW, ORANGE\*\*, OR OTHER CONVENTION NEUTRAL-WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH HIGHER VOLTAGE TO BE MARKED ORANGE [NEC 110.15].

## 2.5.1 GROUNDING NOTES:

2.5.2 GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVISES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.

2.5.3 PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM NEC TABLE 250.122.

2.5.4 METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORD WITH 250.134 AND 250.136(A).

ACCORDING TO NEC 690.45 AND MICROINVERTER

GROUNDING CLIPS AS SHOWN IN

MANUFACTURERDOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE NOT USED. MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED GROUNDING LUG HOLES PER THE MANUFACTURERS' INSTALLATION REQUIREMENTS.

2.5.7 THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OFA MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE. 2.5.8 GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119]

2.5.9 THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM PROVIDED ACCORDING TO NEC 250, NEC 690.47 AND AHJ.

2.5.10 GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690.41(B)(1) AND (2) TO REDUCE FIRE HAZARDS

## 2.6.1 DISCONNECTION AND OVER-CURRENT PROTECTION NOTES:

2.6.2 DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHENTHE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARECONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS). 2.6.3 DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH 2.6.4 PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS IN ACCORDANCE WITH 690.12(A) THROUGH (D). 2.6.5 ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8, 690.9, AND 240. 2.6.6 MICROINVERTER BRANCHES CONNECTED TO A SINGLE BREAKER OR GROUPED FUSES IN ACCORDANCE WITH NEC

2.6.7 IF REQUIRED BY AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION ACCORDING TO NEC 690.11 AND UL1699B.

## 2.7.1 INTERCONNECTION NOTES:

2.7.2 LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH [NEC 705.12 (B)] 2.7.3 THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS OUTPUT MAY NOT EXCEED 120% OF BUSBAR RATING [NEC 705.12(B)(2)(3)(b)]. 2.7.4 THE SUM OF 125 PERCENT OF THE POWER SOURCE(S) OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR SHALL NOT EXCEED 120 PERCENT OF THE AMPACITY OF THE BUSBAR, PV DEDICATED BACKFEED BREAKERS MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD INEC 705.12(B)(2)(3)]. 2.7.5 AT MULTIPLE ELECTRIC POWER SOURCES OUTPUT

COMBINER PANEL. TOTAL RATING OF ALL OVERCURRENT DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE COMBINED OVERCURRENT DEVICE MAY BE EXCLUDED ACCORDING TO NEC 705.12 (B)(2)(3)(C). 2.7.6 FEEDER TAP INTERCONECTION (LOADSIDE) ACCORDING TO NEC 705.12 (B)(2)(1) 2.7.7 SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC 705.12 (A) WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42 2.7.8BACKFEEDING BREAKER FOR ELECTRIC POWER SOURCES OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING [NEC 705.12 (B)(5)].

# CONTRACTOR

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PROJECT NAME & ADDRESS

**CHERIE HERNANDEZ** 

81 FARROW CT, LINDEN, NC 28356

COUNTY:-HARNETT COUNTY

SYSTEM SIZE

DC SIZE: 3.750 KW DC-(STC) AC SIZE: 2.900 KW AC

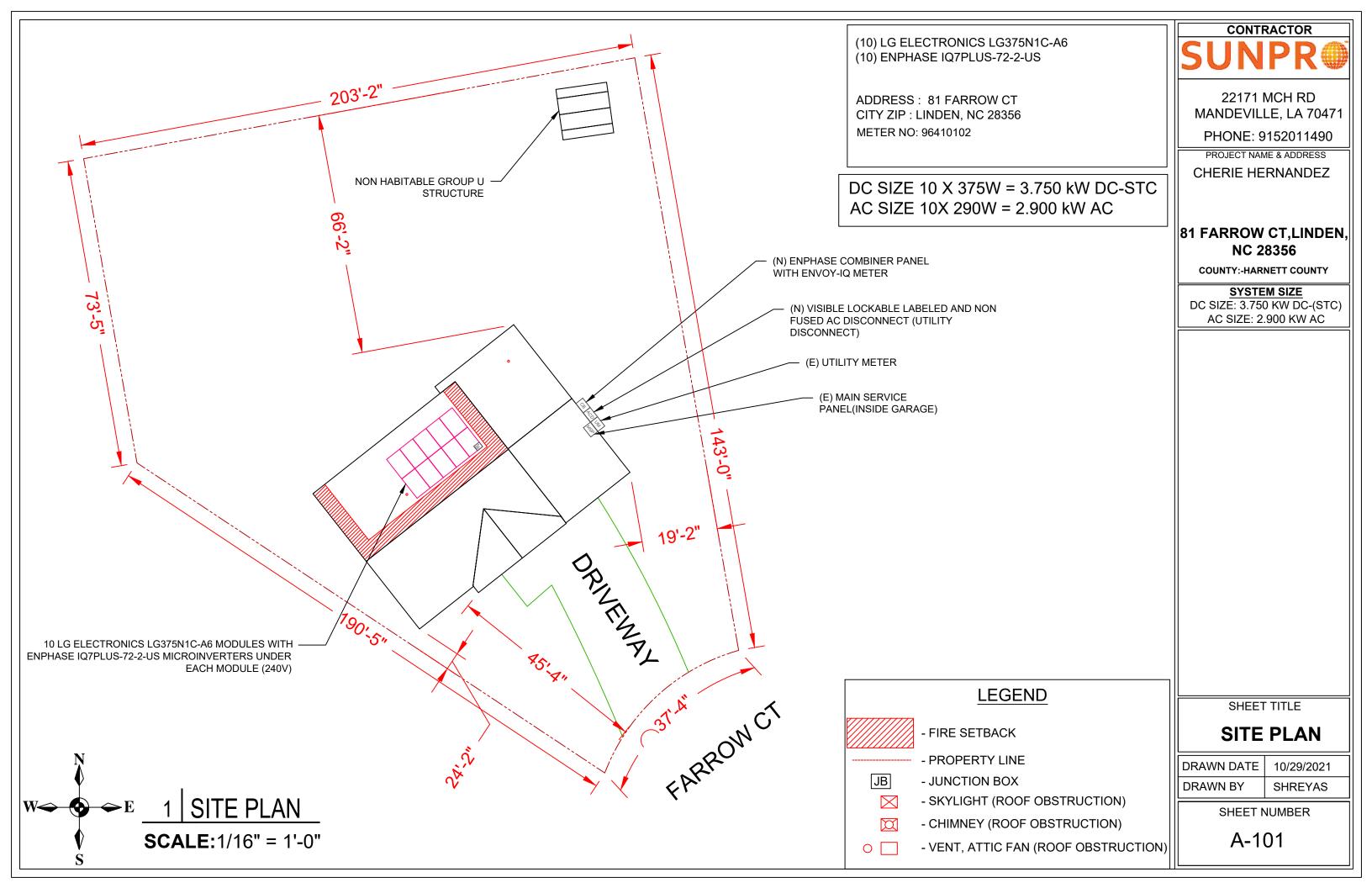
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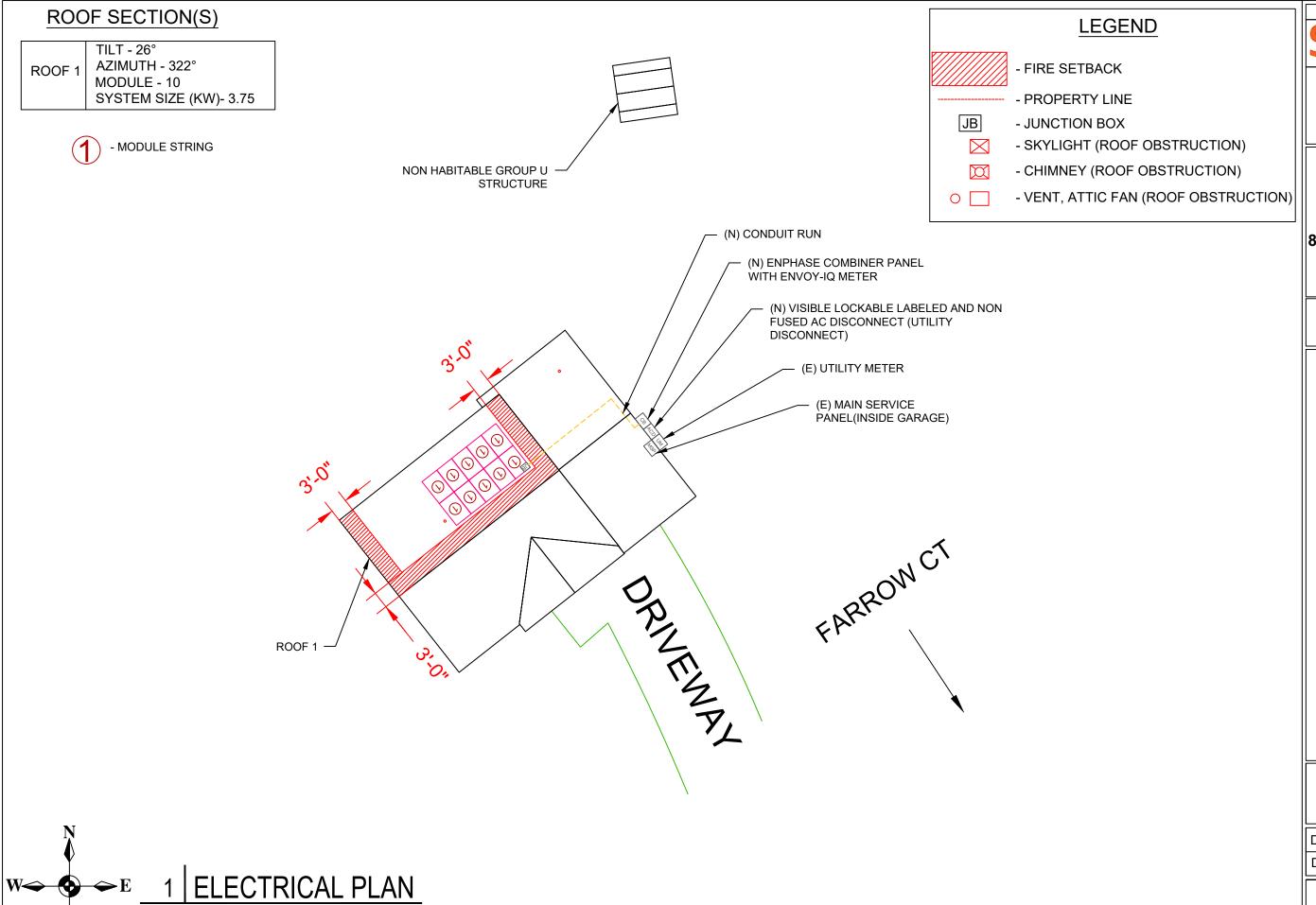
**NOTES** 

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SHEET NUMBER

G-002





**SCALE:**1/16" = 1'-0"

CONTRACTOR
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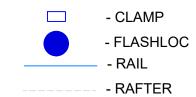
SHEET TITLE

**ELECTRICAL PLAN** 

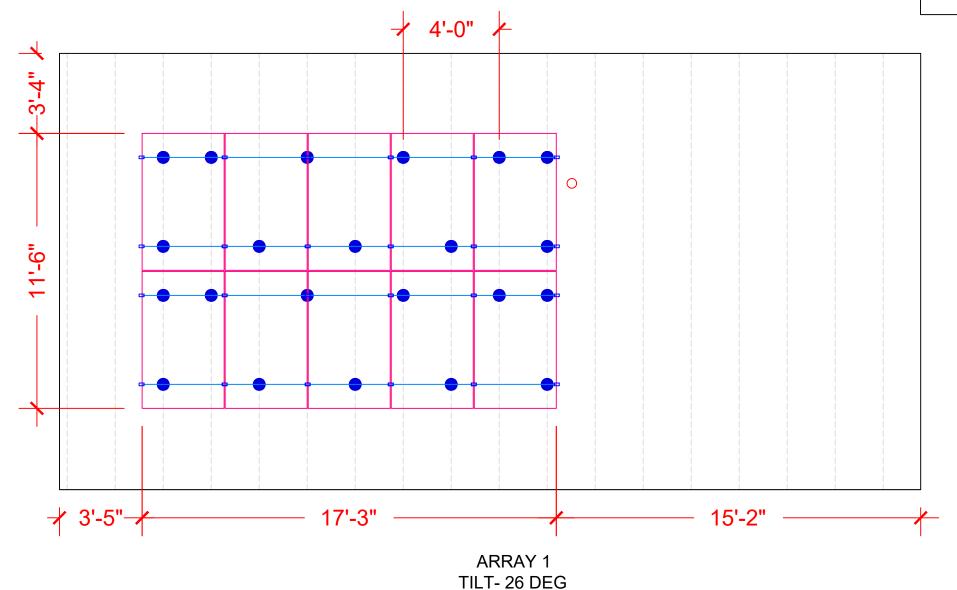
DRAWN DATE 10/29/2021
DRAWN BY SHREYAS

SHEET NUMBER

A-102



22 - TOTAL MOUNT



AZIMUTH - 322 DEG

## ATTACHMENT PLAN

**SCALE:**1/4"=1'-0"

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SHEET TITLE

## **ATTACHMENT PLAN**

DRAWN DATE	10/29/2021
DRAWN BY	SHREYAS

SHEET NUMBER

A-103

## ROOF SECTION(S)

ROOF 1

ROOF MATERIAL -COMPOSITE SHINGLE TRUSS SIZE - 2"X4" O.C. SPACING - 24"



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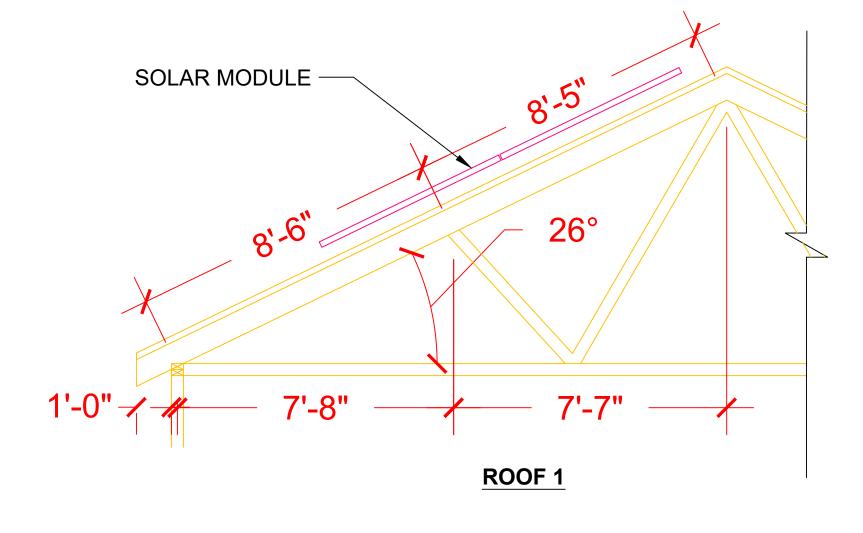
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SHEET TITLE

## STRUCTURAL PLAN

DRAWN DATE 10/29/2021 DRAWN BY SHREYAS

SHEET NUMBER

A-104

1 STRUCTURAL PLAN **SCALE:**3/8"=1'-0"

SOLAR MODULE SPECIFICATIONS		
MANUFACTURER / MODEL #	LG ELECTRONICS LG375N1C-A6	
VMP	35.3V	
IMP	10.63A	
VOC	41.8V	
ISC	11.35A	
TEMP. COEFF. VOC	-0.26%/°C	
MODULE DIMENSION	68.50"L x 41.02"W x 1.57"D (In Inch)	

				$\overline{}$
INVERTER SPECIFICATIONS		WIRE /CONDUIT SCHEDULE		
MANUFACTURER / MODEL #	ENPHASE IQ7PLUS-72-2-US MICROINVERTER	TAG	DESCRIPTION	
MIN/MAX DC VOLT RATING	22V MIN/ 60V MAX	1	#12/2 ROMEX IN ATTIC/#12 THWN-2 ON	┨╟
MAX INPUT POWER	235W-440W		EXTERIOR & (1)#6 THWN -2 / (GN)	
NOMINAL AC VOLTAGE RATING	240V/ 211-264V		, , , , , , , , , , , , , , , , , , ,	1
MAX AC CURRENT	1.21A		#10 THWN-2 & (1)#6 THWN-2 GROUND / (GN)	111
MAX MODULES PER STRING	13 (SINGLE PHASE)		#10 THWN-2 & (1)#6 THWN-2 GROUND / (GN)	↓   <sub></sub>
MAX OUTPUT POWER	290 VA	4	(1)#6 BARE GROUND	

DC SIZE 10 X 375W = 3.750 kW DC-STC AC SIZE 10X 290W = 2.900 kW AC

(GN) GENERAL CONDUIT NOTE:
CONDUIT TO BE UL LISTED FOR WET LOCATIONS AND UV
PROTECTED (EX. -EMT,SCH 80 PVC OR RMC)\*FMC MAYBE
USED IN INDOOR APPLICATIONS WHERE PERMITTED BY
NEC ART .348

METER NO: 96410102

ENPHASE COMBINER PANEL WITH ENVOY IQ METER, (1) 20A / 240VAC CIRCUIT BREAKERS, NEMA 3R, UL LISTED,125A RATED TO UTILITY GRID ENVOY IQ (REVENUE GRADE METER) AC DISCONNECT 60A VISIBLE, LOCKABLE, PER MANUFACTURER LABELED AND NON-FUSIBLE (E) BI-DIRECTIONAL SPECIFICATIONS, EITHER UTILITY METER 10A OR 15A BREAKER IS 1-PHASE, 3-W, LG ELECTRONICS LG375N1C-A6 L2 L2 SUITABLE FOR USE 120V/240V (E) MAIN BREAKER TO G LINE HOUSE 240 V, 200A/2P (1) ENPHASE Q CABLES 10 MICROINVERTERS IN BRANCH CIRCUIT 1 (TOP FED) (E) MAIN SERVICE PANEL 200A RATED, 240V(INSIDE JUNCTION BOX GARAGE) 600 V, NEMA 3 LOAD/LINE SIDE UL LISTED INTERCONNECTION PV 30A/2P AT MAIN PANEL PER ART. 705.12(B) LOAD BACKFEED **ENPHASE IQ7PLUS-72-2-US** - -G MICROINVERTERS ONE UNDER EACH PANEL(240V) GEC **EXISTING GROUNDING ELECTRODE SYSTEM** TO EARTH REF. NEC 250.52, 250.53(A)

SOLAR BREAKER LOCATED AT THE FURTHEST END OF BUSBAR FROM THE MAIN BREAKER OR FEEDER UNIT

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SHEET TITLE

## LINE DIAGRAM

DRAWN DATE 10/29/2021
DRAWN BY SHREYAS

SHEET NUMBER

\_ \_ \_ .

E-601

AMBIENT TEMPERATURE SPECS		
RECORD LOW TEMP	-10°	
AMBIENT TEMP (HIGH TEMP 2%)	35°	
CONDUIT HEIGHT	0.5"	
CONDUCTOR TEMPERATURE RATE	90°	

PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS
.80	4-6
.70	7-9
.50	10-20

## **CALCULATIONS:**

## 1. CURRENT CARRYING CONDUCTOR

(A) <u>BEFORE IQ COMBINER PANEL</u> AMBIENT TEMPERATURE - (35)°C ...NEC 310.15(B)(3)(c) TEMPERATURE DERATE FACTOR - 0.96 ...NEC 310.15(B)(2)(a) GROUPING FACTOR - 1...NEC 310.15(B)(3)(a)

## **CONDUCTOR AMPACITY**

- $= (INV O/P CURRENT) \times 1.25 / A.T.F / G.F ...NEC 690.8(B)$
- $= [(10 \times 1.21) \times 1.25] / [0.96 \times 1]$
- = 15.76A

SELECTED CONDUCTOR - #12 THWN-2 ...NEC 310.15(B)(16)

(B) AFTER IQ COMBINER PANEL
TEMPERATURE DERATE FACTOR - 0.96
GROUPING FACTOR - 1

## **CONDUCTOR AMPACITY**

- $= (TOTAL INV O/P CURRENT) \times 1.25 / 0.96 / 1 ... NEC 690.8(B)$
- $= [(10 \times 1.21) \times 1.25] / [0.96 \times 1]$
- = 15.76 A

**SELECTED CONDUCTOR - #10 THWN-2 ...NEC 310.15(B)(16)** 

## 2. PV OVER CURRENT PROTECTION ...NEC 690.9(B)

**= TOTAL INVERTER O/P CURRENT x 1.25** 

= (10 x 1.21) x 1.25 = 15.13 A SELECTED OCPD = 30 A ...NEC 240.6

## 3. 120% RULE FOR BACKFEED BREAKER

...NEC 705.12(B)(2)(3)(b)

MCB + PV BREAKER <= (1.2 x BUS BAR RATING RATING)

(200 + 30) <= 1.2 x 200A

230.00 <= 240.00 HENCE OK

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# SHEET TITLE ELECTRICAL CALCULATIONS

DRAWN DATE 10/29/2021
DRAWN BY SHREYAS

SHEET NUMBER

E-602



<u>LABEL 1</u> ON ALL CONDUITS SPACED AT MAX 10FT

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

LABEL 5
AT EACH AC DISCONNECT



LABEL 9 AT UTILITY METER



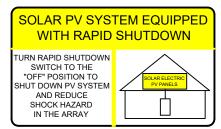
LABEL 6
AT EACH AC DISCONNECT



LABEL 10 AT UTILITY METER

# ! CAUTION! SOLAR ELECTRIC SYSTEM CONNECTED AND ENERGIZED

LABEL 2 AT INVERTER



LABEL 3 AT INVERTER



<u>LABEL 4</u> AT DC DISCONNECT

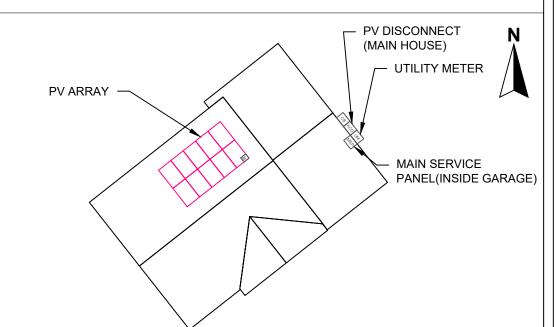


LABEL 7 AT MEP



# **CAUTION**

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN:



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SHEET TITLE

## PLACARD

DRAWN DATE 10/29/2021
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E-603

## LG NeON®2

LG370N1C-A6 | LG375N1C-A6 | LG380N1C-A6 Preliminary



370W | 375W | 380W

The LG NeON® 2 is LG's best selling solar module and one of the most powerful and versatile modules on the market today. The cells are designed to appear all-black at a distance, and the performance warranty guarantees 90.6% of labeled power output at 25 years.









## **Features**



## Enhanced Performance Warranty

LG NeON® 2 has an enhanced performance warranty. After 25 years, LG NeON® 2 is guaranteed at least 90.6% of initial performance.



## 25-Year Limited Product Warranty

The NeON® 2 is covered by a 25-year limited product warranty. In addition, up to \$450 of labor costs will be covered in the rare case that a module needs to be repaired or replaced.



### Solid Performance on Hot Days

LG NeON® 2 performs well on hot days due to its low temperature coefficient.



## Roof Aesthetics

LG NeON® 2 has been designed with aesthetics in mind using thinner wires that appear all black at a distance.

## When you go solar, ask for the brand you can trust: LG Solar

### About LG Electronics USA, Inc.

energy source research program in 1985, supported by LG Group's vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoX® series to the market, which is now available in 32 countries. The NeON® (previous MonoX® NeON), NeONP2, NeON®2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.



Cell Properties (Material/Type)	Monocrystalline/N-type
Cell Maker	LG
Cell Configuration	60 Cels (6 x 10)
Module Dimensions (L x W x H)	1,740mm x 1,042mm x 40mm
Weight	18.6 kg
Glass (Material)	Tempered Glass with AR Coating
Backsheet (Color)	White
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,100mm × 2EA
Connector (Type/Maker)	MC 4/MC

LG370N1C-A6 | LG375N1C-A6 | LG380N1C-A6

### Certifications and Warranty

	EC 61215-1/-1-1/2 : 2016, IEC 61730-1/2 : 2016 UL 61730-1 : 2017, UL 61730-2 : 2017		
Certifications**	ISO 9001, ISO 14001, ISO 50001		
	OHSAS 18001		
Salt Mist Corrosion Test	IEC 61701:2012 Severity 6		
Ammonia Corrosion Test	IEC 62716 : 2013		
Module Fire Performance	Type 1 (UL 61730)		
Fire Rating	Class C (UL 790, ULC/ORD C 1703)		
Solar Module Product Warranty	25 Year Limited		
Solar Module Output Warranty	Linear Warranty*		

### Temperature Characteristics

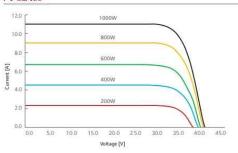
NMOT*	[°C]	42 ± 3	
Pmax	[%/°C]	-0.34	
Voc	[%/°C]	-0.26	
lsc	[%/°C]	0.03	

<sup>\*</sup>NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², Ambient temperature 20°C, Wind speed 1 m/s, Spectrum AM 1.5

### Electrical Properties (NMOT)

Model		LG370N1C-A6	LG375N1C-A6	LG380N1C-A6
Maximum Power (Pmax)	[W]	277	281	285
MPP Voltage (Vmpp)	[V]	32.8	33.2	33.5
MPP Current (Impp)	[A]	8.46	8.48	8.49
Open Circuit Voltage (Voc)	[V]	39.3	39.4	39,4
Short Circuit Current (Isc)	[A]	9.09	9.13	9.16

## I-V Curves



LG370-380N1C-A6\_AUS.pdf

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## LG NeON®2

## USA=

### Preliminary

### Electrical Properties (STC\*)

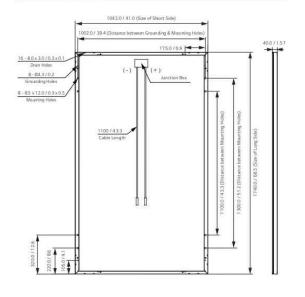
Model		LG370N1C-A6	LG375N1C-A6	LG380N1C-A6
Maximum Power (Pmax)	[W]	370	375	380
MPP Voltage (Vmpp)	[V]	34.9	35.3	35.7
MPP Current (Impp)	[A]	10.61	10.63	10.65
Open Circuit Voltage (Voc, ± 5%)	[V]	41.7	41.8	41.9
Short Circuit Current (Isc, ± 5%)	[A]	11.31	11.35	11.39
Module Efficiency	[%]	20.4	20.7	21.0
Bifaciality Coefficient of Power	[%]		10	
Power Tolerance	[96]		0-+3	

### Operating Conditions Operating Temperature -40 ~+85 20 Maximum Series Fuse Rating [A] Mechanical Test Load" (Front) [Pa/psf] 5400

### Packaging Configuration

Number of Modules per Pallet	[EA]	25
Number of Modules per 40' Container	[EA]	650
Number of Modules per 53' Container	[EA]	850
Packaging Box Dimensions (Lx Wx H)	[mm]	1,790 x 1,120 x 1,213
Packaging Box Dimensions (Lx Wx H)	[in]	70.5 x 44.1 x 47.8
Packaging Box Gross Weight	[kg]	500
Packaging Box Gross Weight	[lb]	1,102

### Dimensions (mm/inch)



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<sup>\*</sup>Based on IEC 61215-2: 2016 (Test Load = Design Load x Safety Factor (1.5)) Mechanical Test Loads 6,000Pa / 5,400Pa based on IEC 61215: 2005

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		IQ7PLUS-72-2	-US	
Commonly used module pairings1	235 W - 350 W +		235 W - 440 W +	#	
Module compatibility	60-cell PV mod	ules only	60-cell and 72-c	ell PV modules	
Maximum input DC voltage	48 V		60 V	A WAR AND	
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		н		
DC port backfeed current	0 A		0 A		
PV array configuration	1 x 1 ungrounded array; No addition AC side protection requires max 20				
OUTPUT DATA (AC)	1Q 7 Microinve	erter	IQ 7+ Microin	verter	
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	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®	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)	
Overvoltage class AC port	111		III	2 10	
AC port backfeed current	0 A		0 A		
Power factor setting	1.0		1.0		
Power factor (adjustable)	0.85 leading t	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% (condensing)
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 ad
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)

Weight 1.08 kg (2.38 lbs) Cooling Natural convection - No fans Approved for wet locations Pollution degree

Enclosure Class II double-insulated, corrosion resistant polymeric enclosure Environmental category / UV exposure rating NEMA Type 6 / outdoor

FEATURES Communication Power Line Communication (PLC) Monitoring Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy. The AC and DC connectors have been evaluated and approved by UL for use as the load-break Disconnecting means disconnect required by NEC 690. CA Rule 21 (UL 1741-SA) Compliance UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,

GAN/CSA-C22 2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.

1. No enforced DC/AC ratio. See the compatibility calculator at https://enphase.com/en-us/support/module-compatibility

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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## **SYSTEM SIZE**

DC SIZE: 3.750 KW DC-(STC) AC SIZE: 2.900 KW AC

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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.



To learn more about Enphase offerings, visit enphase.com

### 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
- · Supports Ensemble Communications Kit for communication with Enphase Encharge™ storage and Enphase Enpower™ smart switch

### Simple

- · Reduced size from previous combiner
- · Centered mounting brackets support single stud
- · 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 limited warranty
- UL listed



COMMS-KIT-01

Circuit Breakers

Dimensions (WxHxD)

Compliance, Combiner

Compliance, IQ Envoy

Weight

Enphase IQ Combiner 3					
MODEL NUMBER	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	nt 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 *Consumption monitoring is required for Enphase Storage Systems	Split core current transformers enable whole home consumption metering (+/- 2.5%).				
Ensemble Communications Kit	Installed at the IQ Envoy. For communications with Enphase Encharge™ storage and Enphase				

ELECTRICAL SPECIFICATIONS	
XA-ENV-PCBA-3	Replacement IQ Envoy printed circuit board (PCB) for Combiner 3
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 3 (required for EPLC-01)
XA-SOLARSHIELD-ES	Replace the default solar shield with this Ensemble Combiner Solar Shield to match the look and feel of the Enphase Enpower™ smart switch and the Enphase Encharge™ storage system
EPLC-01	Power line carrier (communication bridge pair), quantity - one pair
BRK-10A-2-240 BRK-15A-2-240 BRK-20A-2P-240	Circuit breaker, 2 pole, 10A, Eaton BR210 Circuit breaker, 2 pole, 15A, Eaton BR215 Circuit breaker, 2 pole, 20A, Eaton BR220

and allows wireless communication with Encharge and Enpowe

Enpower™ smart switch. Includes USB cable for connection to IQ Envoy or Enphase IQ Combiner™

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).

Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers.

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)	80 A of distributed generation / 95 A with IQ Envoy breaker included
Envoy breaker	10A or 15A rating GE Q-line/Siemens Type QP /Eaton BR series included
Production Metering CT	200 A solid core pre-installed and wired to IQ Envoy

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  Altitude	<ul> <li>20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors</li> <li>60 A breaker branch input: 4 to 1/0 AWG copper conductors</li> <li>Main lug combined output: 10 to 2/0 AWG copper conductors</li> <li>Neutral and ground: 14 to 1/0 copper conductors</li> <li>Always follow local code requirements for conductor sizing.</li> <li>To 2000 meters (6.560 feet)</li> </ul>	
	10 2000 meters (6,360 feet)	
INTERNET CONNECTION OPTIONS		
Integrated Wi-Fi	802.11b/g/n	
Ethernet	et Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)	
Cellular	CELLMODEM-M1 4G based LTE-M cellular modem (not included). Note that an Enphase Mobile Connect cellular modem is required for all Ensemble installations.	
COMPLIANCE		

UL 60601-1/CANCSA 22.2 No. 61010-1

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)

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

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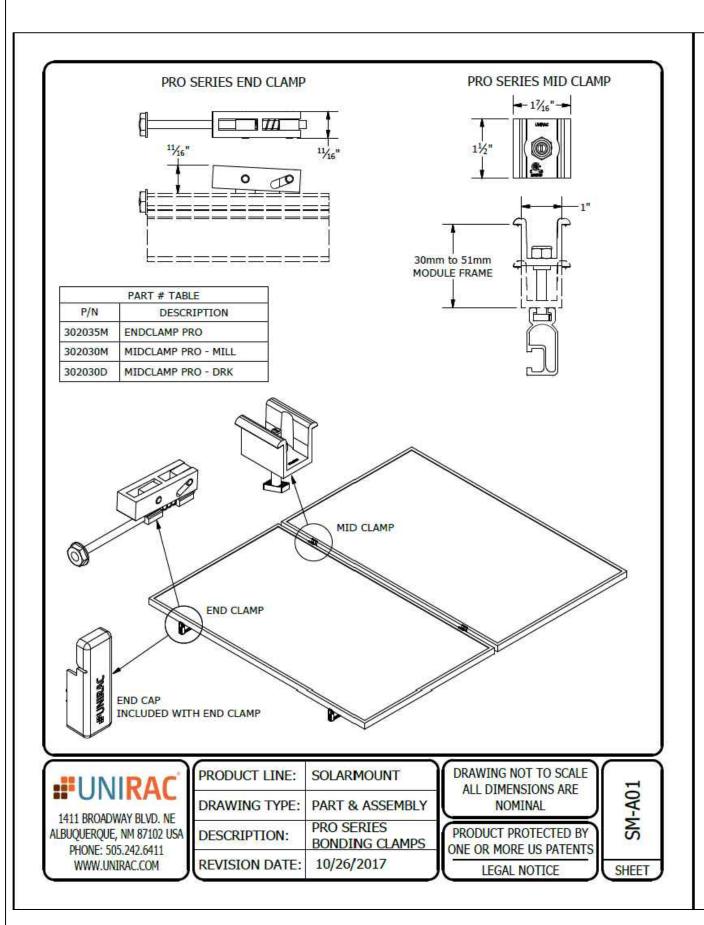
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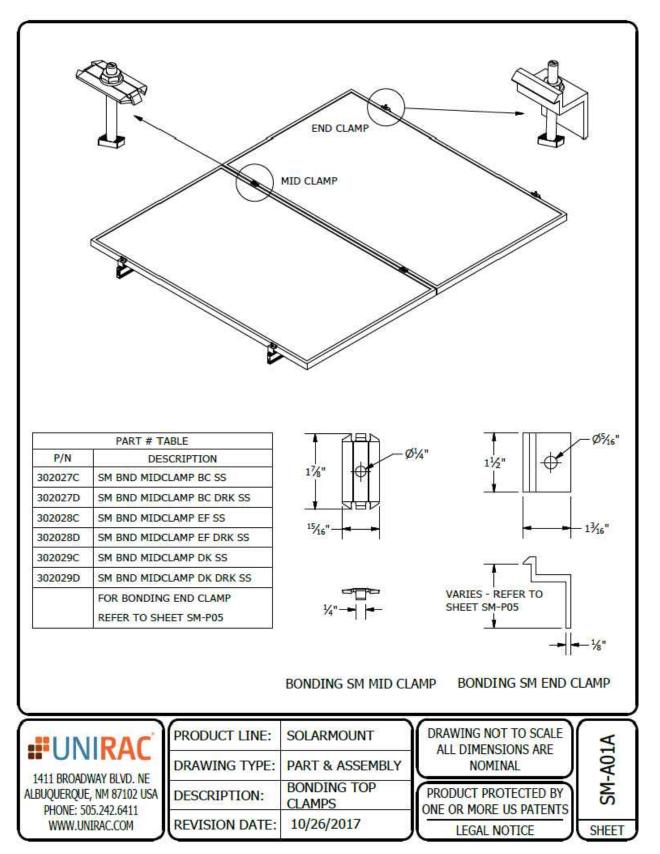
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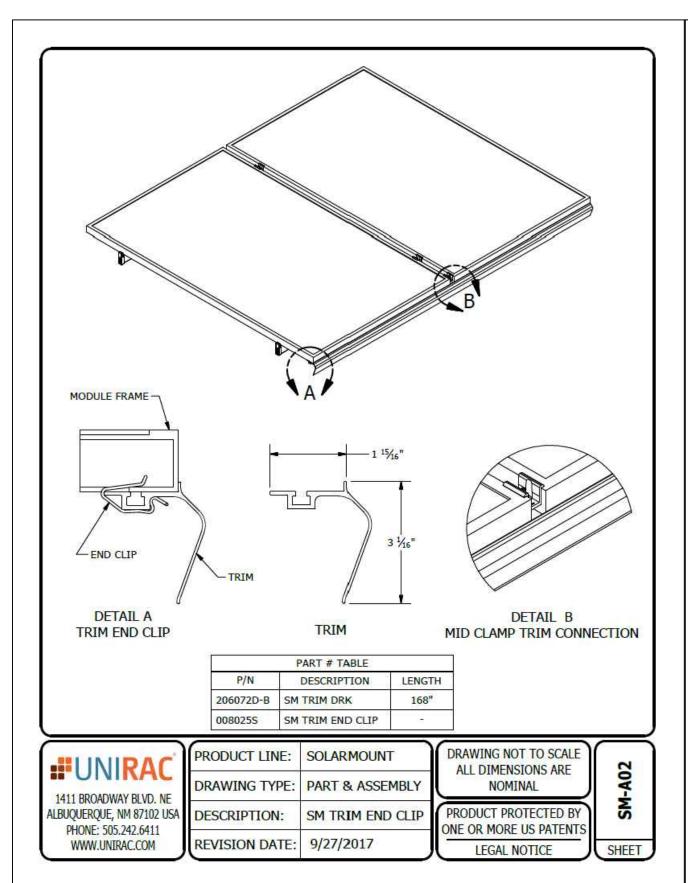
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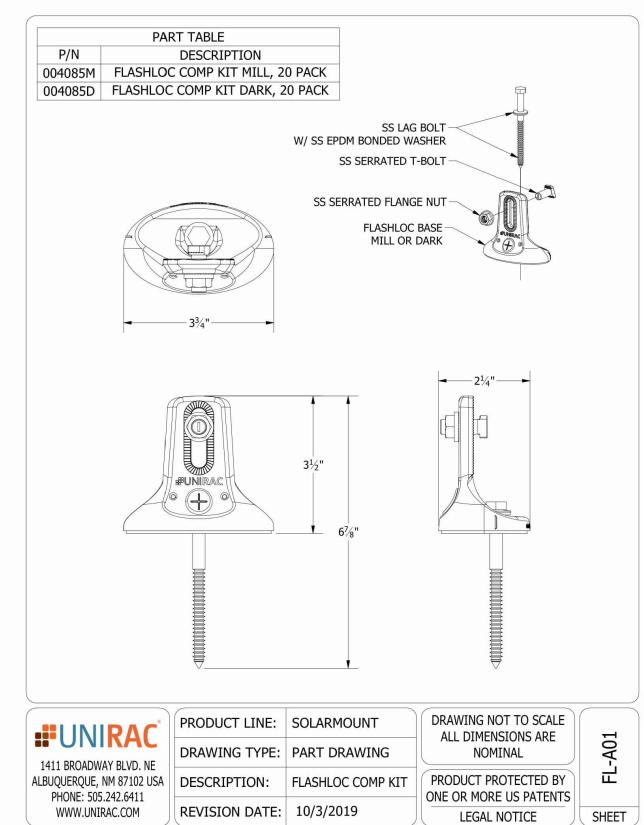
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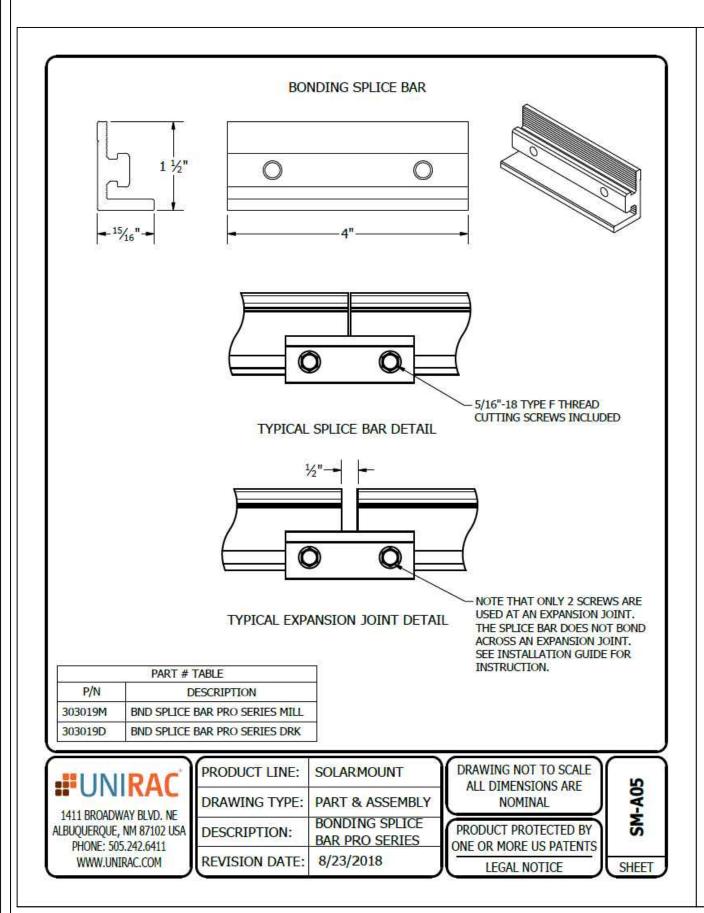
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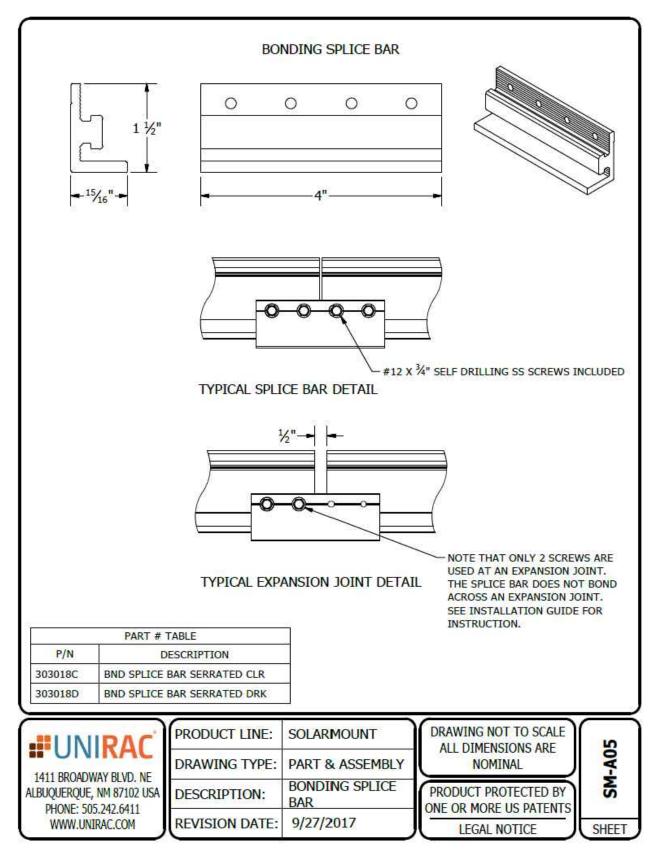
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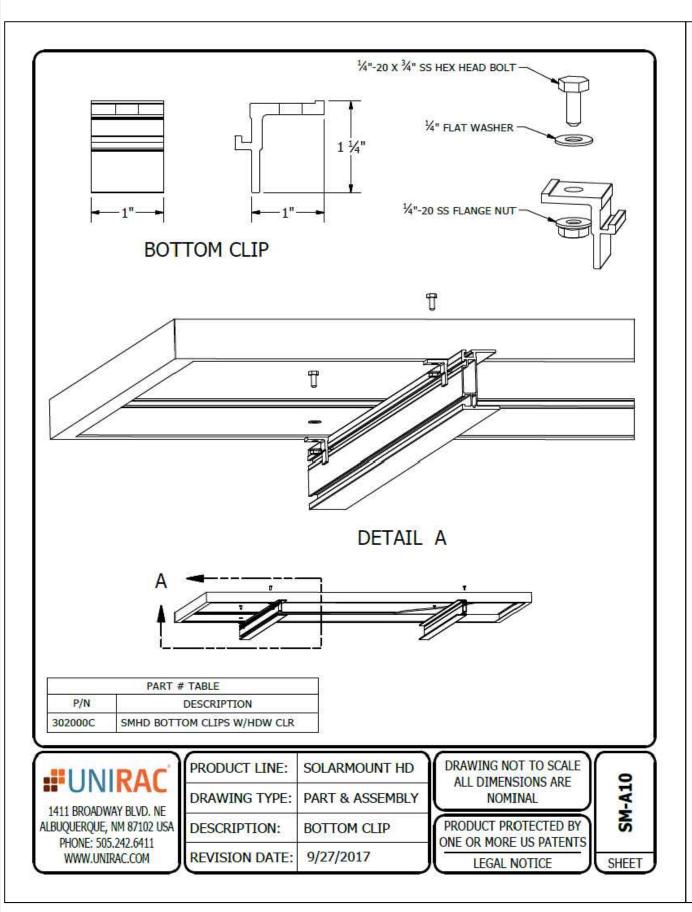
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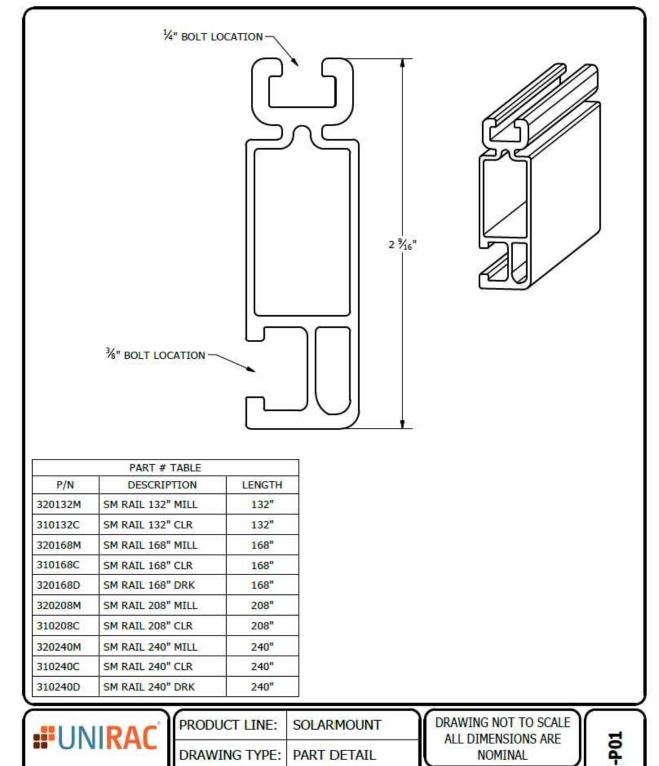
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PART DETAIL

9/11/2017

STANDARD RAIL

NOMINAL

PRODUCT PROTECTED BY

ONE OR MORE US PATENTS

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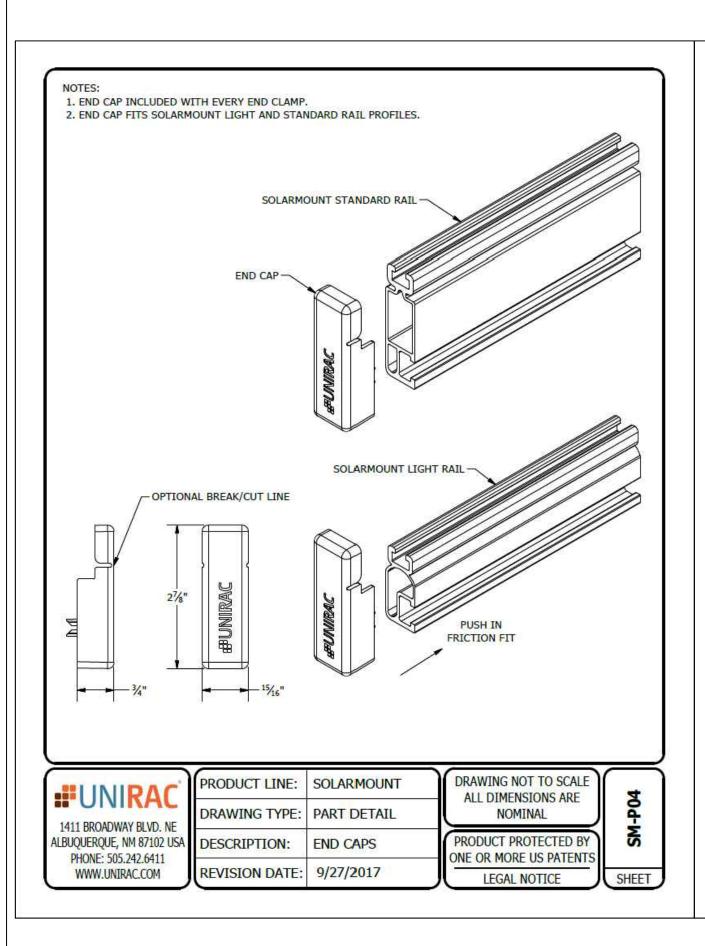
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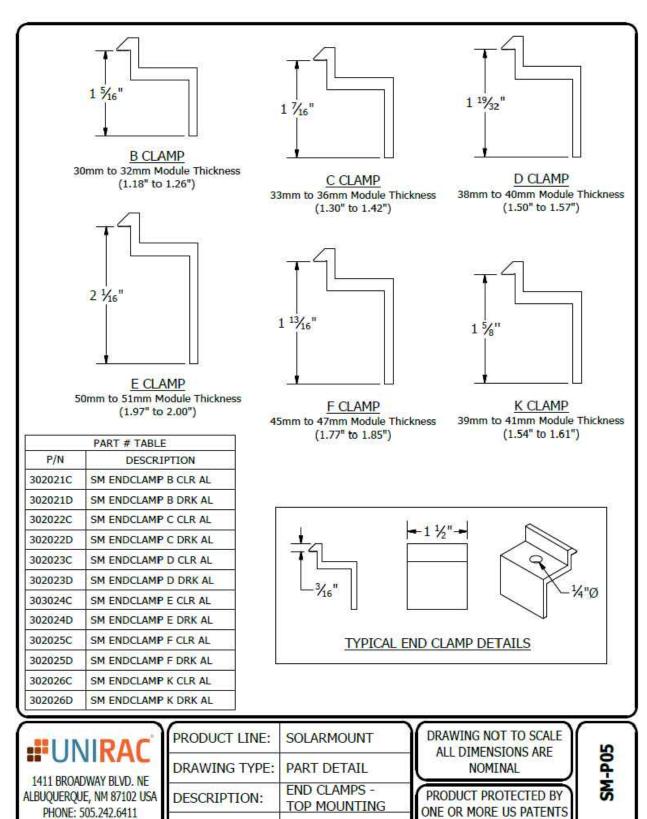
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