NEW PHOTOVOLTAIC SYSTEM 6.94 KW DC

438 HOLIDAY ROAD, BUNNLEVEL, NC 28323, USA

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.

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 LG365N1C-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: CYNTHIA PRICE

APN- 120576001412

PROJECT MANAGER NAME: SHAHIN HAYNES

PHONE: 8665071461

CONTRACTOR NAME

MARC JONES CONSTRUCTION. LLC DBA SUNPRO SOLAR PHONE: 5052180838

SCOPE OF WORK

SYSTEM SIZE: STC:19 X 365W= 6.94 kW DC

PTC: 19 x 341.6W = 6.49 kW DC (19) LG ELECTRONICS LG365N1C-A6 (19) ENPHASE IQ7PLUS-72-2-US

ATTACHMENT TYPE: ROOF MOUNT

MSP UPGRADE: NO

AUTHORITIES HAVING JURISDICTION

BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY

UTILITY: SOUTH RIVER ELECTRIC COOP

METER NO: 15586479

DESIGN SPECIFICATION

OCCUPANCY:

CONSTRUCTION: SINGLE-FAMILY ZONING: RESIDENTIAL

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

APPLICABLE CODES & STANDARDS

IBC 2015. IRC 2015 BUILDING:

ELECTRICAL: NEC 2017 FIRE: IFC 2018



VICINITY MAP





SATELLITE VIEW

SYSTEM SIZE:

22171 MCH RD MANDEVILLE, LA 70471

PHONE: 9152011490

DC SIZE: 6.935 KW DC-(STC)

CONTRACTOR

AC SIZE: 5.510 KW AC

CUSTOMER NAME & ADDRESS CYNTHIA PRICE

438 HOLIDAY ROAD. **BUNNLEVEL**, NC 28323,USA

REVISIONS

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SHEET INDEX

	9 · · · — — · · · · · · · · · · · ·	
G-001	COVER PAGE	
G-002	NOTES	
A-101	SITE PLAN	
A-102	ELECTRICAL PLAN	
A-103	ATTACHMENT PLAN	
A-104	STRUCTURAL PLAN	
E-601	LINE DIAGRAM	
E-602	ELECTRICAL CALCULATIONS	
E-603	PLACARD	
R-001	RESOURCE DOCUMENT	
R-002	RESOURCE DOCUMENT	
R-003	RESOURCE DOCUMENT	
R-004	RESOURCE DOCUMENT	
R-005	RESOURCE DOCUMENT	
R-006	RESOURCE DOCUMENT	
R-007	RESOURCE DOCUMENT	
R-008	RESOURCE DOCUMENT	
R-009	RESOURCE DOCUMENT	
R-010	RESOURCE DOCUMENT	

COVER PAGE

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

22171 MCH RD MANDEVILLE, LA 70471 PHONE: 9152011490

SYSTEM SIZE:

DC SIZE: 6.935 KW DC-(STC)

AC SIZE: 5.510 KW AC

CUSTOMER NAME & ADDRESS CYNTHIA PRICE

438 HOLIDAY ROAD, **BUNNLEVEL**, NC 28323,USA

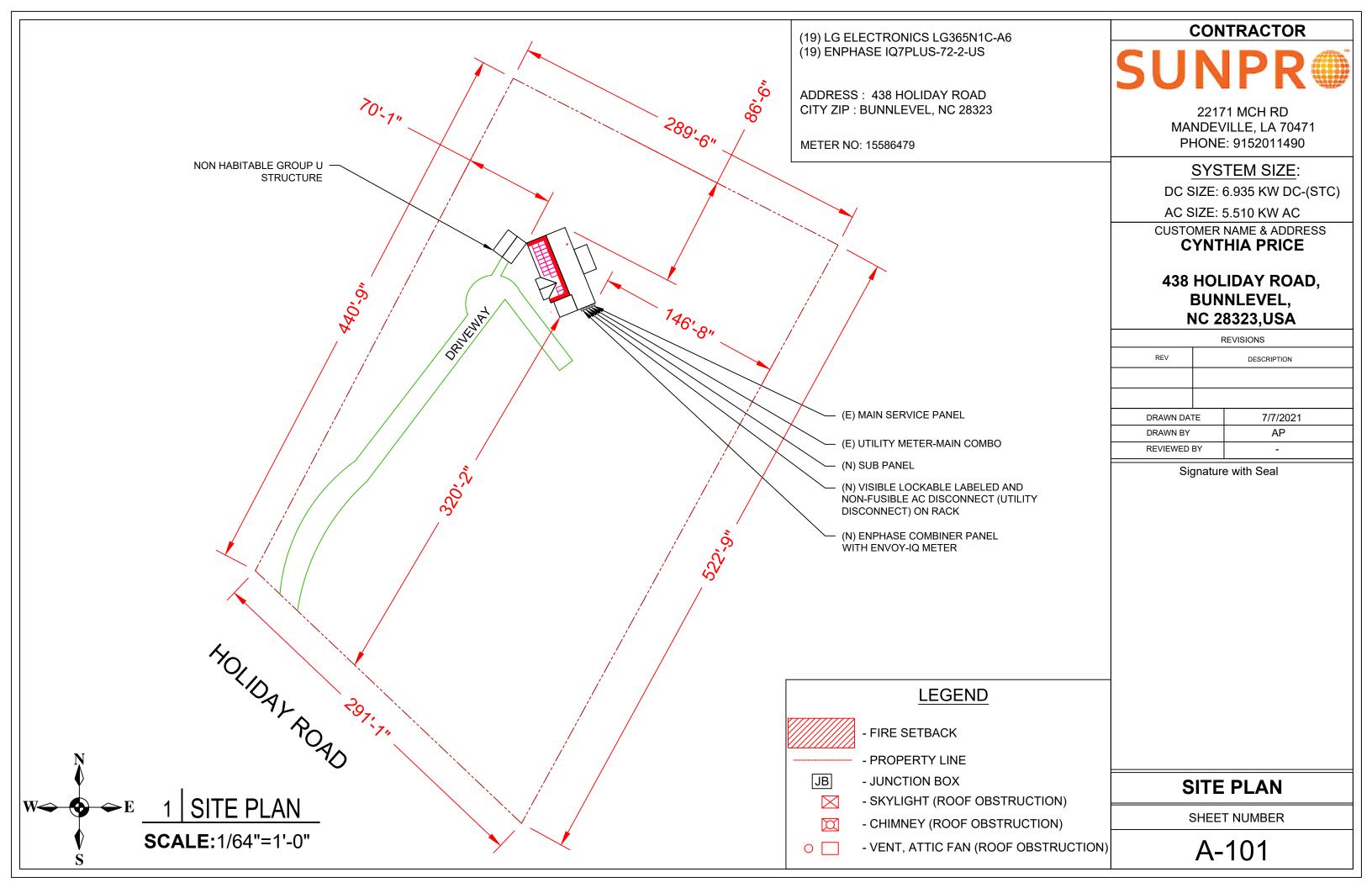
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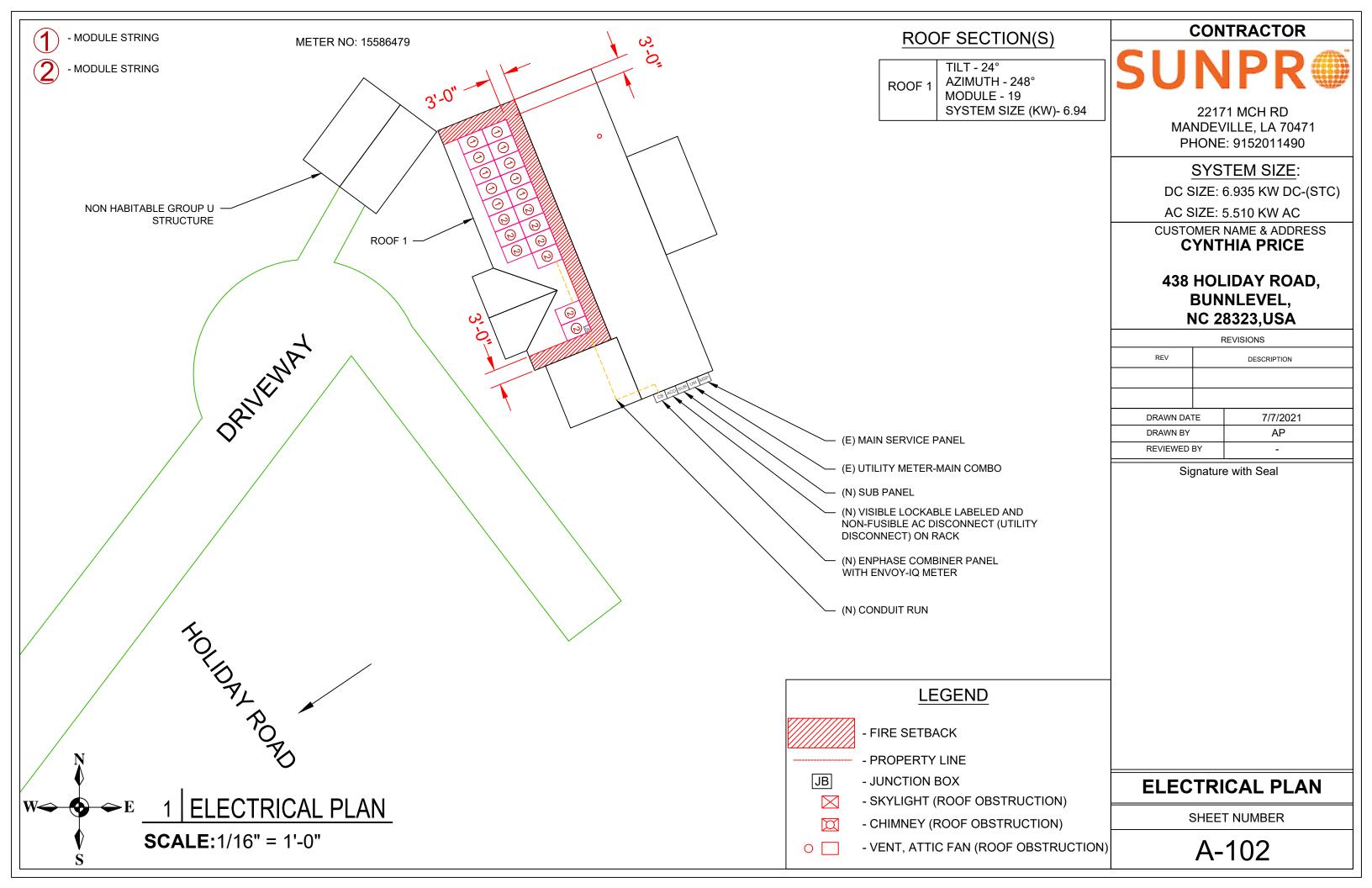
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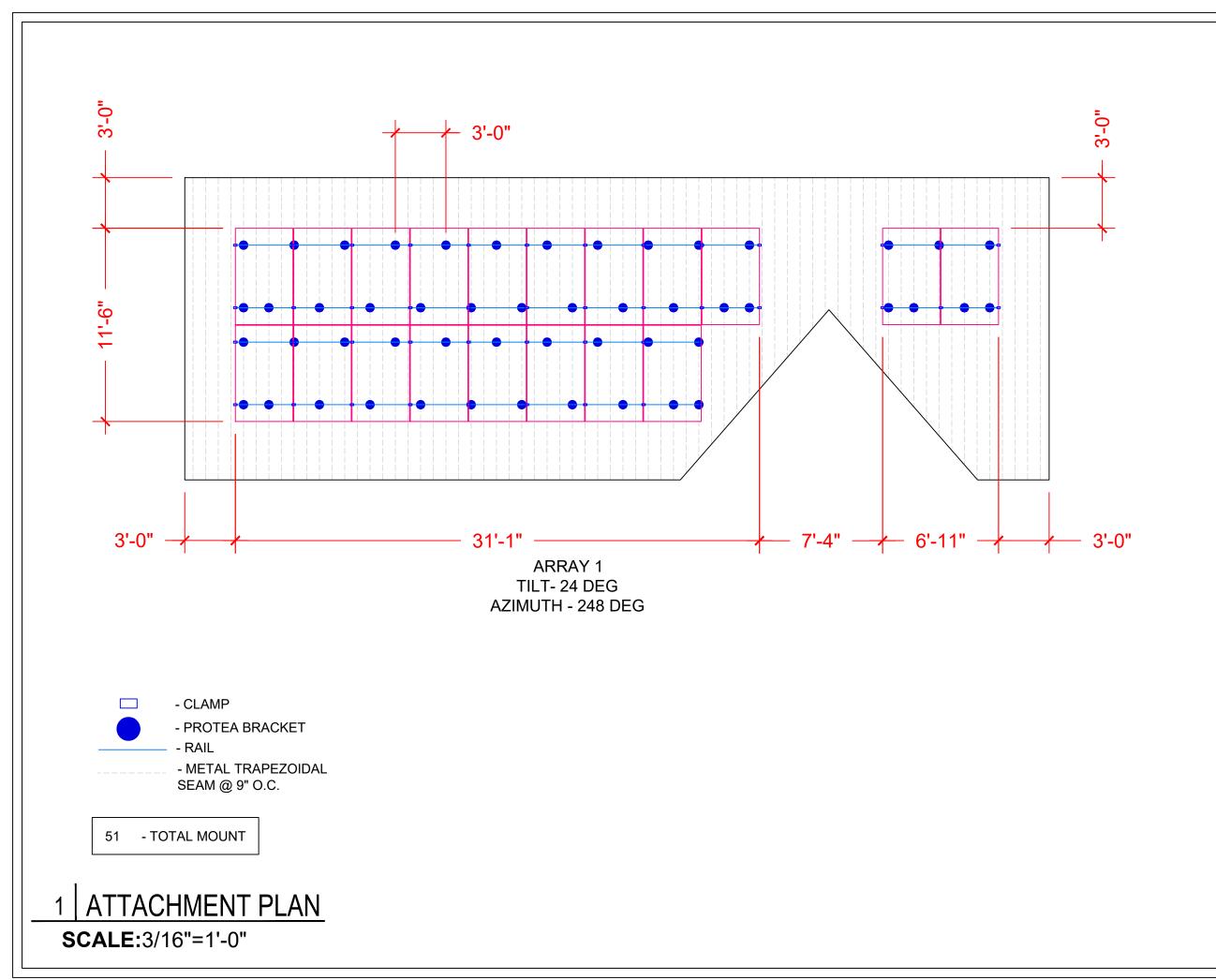
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22171 MCH RD MANDEVILLE, LA 70471 PHONE: 9152011490

SYSTEM SIZE:

DC SIZE: 6.935 KW DC-(STC)

AC SIZE: 5.510 KW AC

CUSTOMER NAME & ADDRESS
CYNTHIA PRICE

438 HOLIDAY ROAD, BUNNLEVEL, NC 28323,USA

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ATTACHMENT PLAN

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A-103

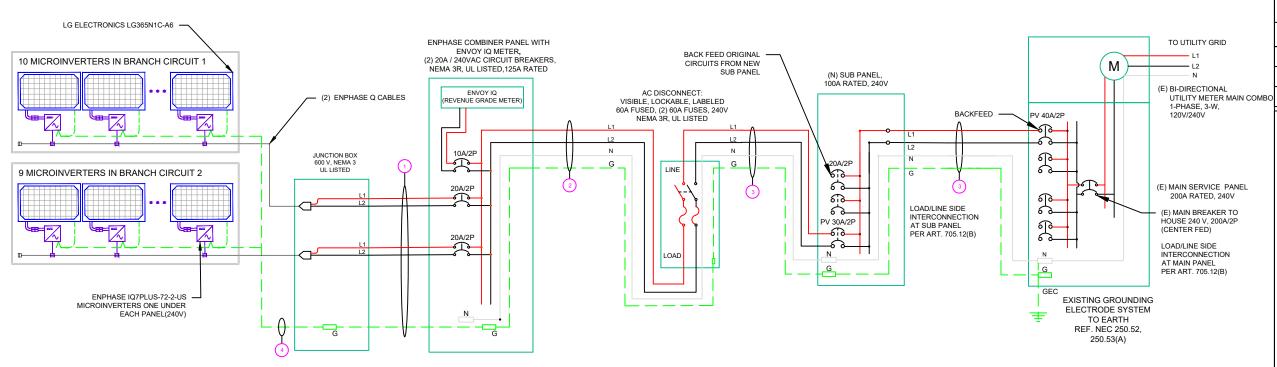
SOLAR MODULE SPECIFICATIONS		
MANUFACTURER / MODEL #	LG ELECTRONICS LG365N1C-A6	
VMP	34.5V	
IMP	10.58A	
VOC	41.6V	
ISC	11.27A	
TEMP. COEFF. VOC	-0.26%/°C	
MODULE DIMENSION	68.50"L x 41.02"W x 1.57"D (In Inch)	

INVERTER SPECIFICATIONS		
MANUFACTURER / MODEL #	ENPHASE IQ7PLUS-72-2-US MICROINVERTER	
MIN/MAX DC VOLT RATING	22V MIN/ 60V MAX	
MAX INPUT POWER	235W-440W	
NOMINAL AC VOLTAGE RATING	240V/ 211-264V	
MAX AC CURRENT	1.21A	
MAX MODULES PER STRING	13 (SINGLE PHASE)	
MAX OUTPUT POWER	290 VA	

	WIRE /CONDUIT SCHEDULE		
TAG	DESCRIPTION		
1	#12/2 ROMEX IN ATTIC/#12 THWN-2 ON EXTERIOR & (1)#6 THWN -2 / (GN)		
2	#10 THWN-2 & (1)#6 THWN-2 GROUND / (GN)		
3	#6 THWN-2 & (1)#6 THWN-2 GROUND / (GN)		
4	(1)#6 BARE GROUND		

(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



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

CONTRACTOR

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AC SIZE: 5.510 KW AC

CUSTOMER NAME & ADDRESS

CYNTHIA PRICE

438 HOLIDAY ROAD, BUNNLEVEL, NC 28323,USA

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LINE DIAGRAM

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 - 0.8...NEC 310.15(B)(3)(a)

CONDUCTOR AMPACITY

- $= (INV O/P CURRENT) \times 1.25 / A.T.F / G.F ...NEC 690.8(B)$
- $= [(10 \times 1.21) \times 1.25] / [0.96 \times 0.8]$
- = 19.69A

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) x 1.25 / 0.96/ 1 ... NEC 690.8(B)
- $= [(19 \times 1.21) \times 1.25] / [0.96 \times 1]$
- = 29.93 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 = (19 x 1.21) x 1.25 = 28.74 A SELECTED OCPD = 40 A ...NEC 240.6

5. <u>120% RULE FOR BACKFEED BREAKER</u> ...NEC 705.12(B)(2)(3)(b)

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

(200 + 40) <= 1.2 x 200A

240.00 <= 240.00 HENCE OK

CONTRACTOR

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ELECTRICAL CALCULATIONS

SHEET NUMBER

E-602

WARNING:
PHOTOVOLTAIC
POWER SOURCE

LABEL 1
ON ALL CONDUITS SPACED AT MAX 10FT

! WARNING! ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS

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

PHOTOVOLTAIC

AC DISCONNECT

AT EACH AC DISCONNECT

! CAUTION!
• SOLAR POINT OF INTERCONNECTION

LABEL 9 AT UTILITY METER

! WARNING!

• THE SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM

LABEL 10 AT UTILITY METER

! CAUTION! SOLAR ELECTRIC SYSTEM CONNECTED AND ENERGIZED

LABEL 2 AT INVERTER

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

URN RAPID SHUTDOWN
SWITCH TO THE
"OFF" POSITION TO
SHUT DOWN PV SYSTEM
AND REDUCE
SHOCK HAZARD
IN THE ARRAY



LABEL 3 AT INVERTER

PHOTOVOLTAIC
DC DISCONNECT

LABEL 4
AT DC DISCONNECT

! WARNING!

DUAL POWER SOURCES
 SECOND SOURCE IS PV SYSTEM

LABEL 7 AT MEP

LABEL 6

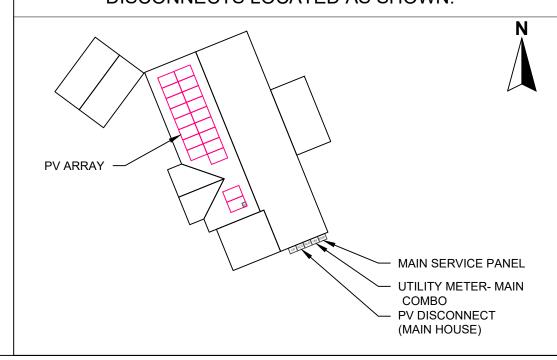
! WARNING!

SOLAR SYSTEM CONNECTED
AND ENERGIZED

LABEL 8 AT MEP

CAUTION

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



CONTRACTOR

SUNPR

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PLACARD

SHEET NUMBER

E-603

LG NeON[®]2



365W

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.

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. The company first embarked on a solar energy source research program in 1985, supported by LG Group's wat experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoN® series to the market, which is now available in 32 countries. The NeON® forevious MonoX® NeON), NeON®2, NeON®2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry:



LG NeON®2

LG365N1C-A6

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Cell Properties (Material/Type)	Monocrystalline/N-type	
Cell Maker	LG	
Cell Configuration	60 Cells (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	

Certifications and Warranty

	IEC 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 1800 1
Salt Mist Corrosion Test	IEC 61701:2011 Severity 6
Ammonia Corrosion Test	IEC 62716: 2013
Module Fire Performance	Type 1 (UL 61730)
Fire Rating	Class C (UL 790)
Solar Module Product Warranty	25 Year Limited
Solar Module Output Warranty	Linear Warranty*

*Improved: 1^a year 98.5%, from 2-24th year: -0.33%/year down, 90.6% at year 25

Temperature Characteristics

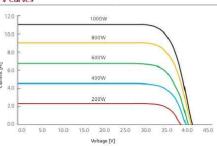
NMOT*	[°C]	42 ± 3	
Pmax	[%/°C]	-0.34	
Voc	[%/°C]	-0.26	
Isc	[%/°C]	0.03	

Wind speed 1 m/s, Spectrum AM 1.5

Electrical Properties (NMOT)

Model		LG365N1C-A6		
Maximum Power (Pmax)	[W]	273.4		
MPP Voltage (Vmpp)	[V]	32.4		
MPP Current (Impp)	[A]	8.44		
Open Circuit Voltage (Voc)	[V]	39.2		
Short Circuit Current (Isc)	[A]	9.06		

I-V Curves



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 W x H)	[mm]	1,790 x 1,120 x 1,213
Packaging Box Dimensions (L x W x H)	[in]	70.5 x 44.1 x 47.8
Packaging Box Gross Weight	[kg]	500
Packaging Box Gross Weight	[lb]	1,102

[V]

LG365N1C-A6

10.58

416

20.1

1,000

5,400

4,000

Dimensions (mm/inch)

Electrical Properties (STC*)

Open Circuit Voltage (Voc, ± 5%)

Bifaciality Coefficient of Power

Operating Conditions

Operating Temperature

Maximum System Voltage

Maximum Series Fus e Rating

Mechanical Test Load* (Front)

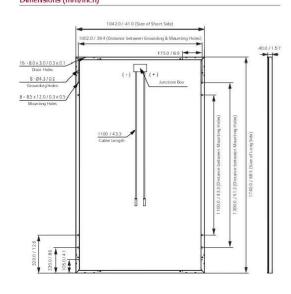
Mechanical Test Load' (Rear)

*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

Maximum Power (Pmax)
MPP Voltage (Vmpp)
MPP Current (Impp)

Module Efficiency



LIFe's Good

LG Electronics USA, In Solar Business Divisior 2000 Millbrook Drive Lincolnshire, IL 60069

Product specifications are subject to change without noti LG365N1C-A6.pdf 011821

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CONTRACTOR

SUNPR

22171 MCH RD MANDEVILLE, LA 70471 PHONE: 9152011490

SYSTEM SIZE:

DC SIZE: 6.935 KW DC-(STC)

AC SIZE: 5.510 KW AC

CUSTOMER NAME & ADDRESS
CYNTHIA PRICE

438 HOLIDAY ROAD, BUNNLEVEL, NC 28323,USA

REVISIONS REV DESCRIPTION DRAWN DATE 7/7/2021 DRAWN BY AP REVIEWED BY -

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RESOURCE DOCUMENT

SHEET NUMBER

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

[시] - 1. [1					
INPUT DATA (DC)	1Q7-60-2-US		IQ7PLUS-72-2	-US	
Commonly used module pairings1	235 W - 350 W +		235 W - 440 W	F.	
Module compatibility	60-cell PV modules only		60-cell and 72-	cell PV modules	
Maximum input DC voltage	48 V		60 V		
Peak power tracking voltage	27 V - 37 V		27 V - 45 V		
Operating range	16 V - 48 V		16 V - 60 V		
Min/Max start voltage	22 V / 48 V		22 V / 60 V		
Max DC short circuit current (module Isc)	15 A		15 A		
Overvoltage class DC port	11		11		
DC port backfeed current	0 A		0 A		
PV array configuration		ed array; No additio tion requires max 20			
OUTPUT DATA (AC)	IQ 7 Microinv	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 ²	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	III		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	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	37720-11	33-0-17,1145			
Ambient temperature range	-40°C to +65°C	Š.			

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 adapter)	
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	Yes	
Pollution degree	PD3	
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.
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.
Compliance	GA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B,

CAN/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.

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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CONTRACTOR

22171 MCH RD MANDEVILLE, LA 70471 PHONE: 9152011490

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AC SIZE: 5.510 KW AC

CUSTOMER NAME & ADDRESS CYNTHIA PRICE

438 HOLIDAY ROAD, **BUNNLEVEL**, NC 28323,USA

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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 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 receptable 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	Active in stability to the control of the stability of th		
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 A breaker inputs: 14 to 4 AWG copper conductors 60 A breaker branch input: 4 to 1/0 AWG copper conductors Main lug combined output: 10 to 2/0 AWG copper conductors Neutral and ground: 14 to 1/0 copper conductors 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, CatSE (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		

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22171 MCH RD MANDEVILLE, LA 70471 PHONE: 9152011490

SYSTEM SIZE:

DC SIZE: 6.935 KW DC-(STC)

AC SIZE: 5.510 KW AC

CUSTOMER NAME & ADDRESS

CYNTHIA PRICE

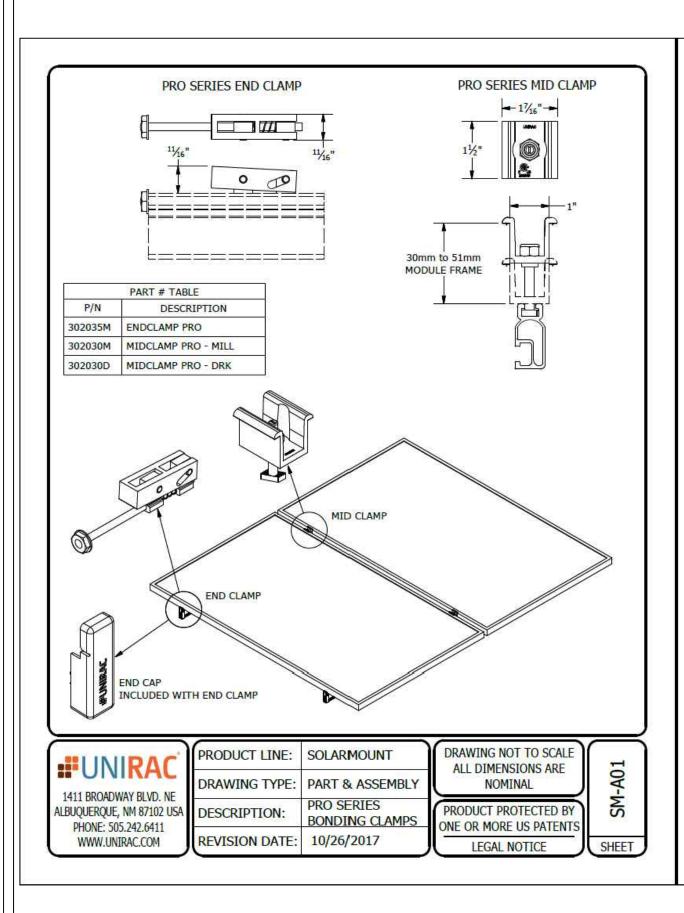
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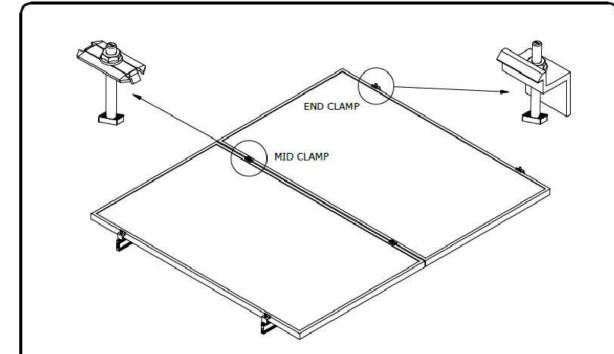
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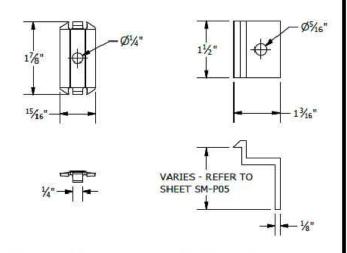
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SHEET NUMBER





	PART # TABLE
P/N	DESCRIPTION
302027C	SM BND MIDCLAMP BC SS
302027D	SM BND MIDCLAMP BC DRK SS
302028C	SM BND MIDCLAMP EF SS
302028D	SM BND MIDCLAMP EF DRK SS
302029C	SM BND MIDCLAMP DK SS
302029D	SM BND MIDCLAMP DK DRK SS
	FOR BONDING END CLAMP
	REFER TO SHEET SM-P05



#UNIRAC

1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM PRODUCT LINE: SOLARMOUNT

DRAWING TYPE: PART & ASSEMBLY

DESCRIPTION: BONDING TOP CLAMPS

REVISION DATE: 10/26/2017

BONDING SM MID CLAMP

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY
ONE OR MORE US PATENTS
LEGAL NOTICE
SHEET

BONDING SM END CLAMP

SM-A01A

CONTRACTOR

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22171 MCH RD MANDEVILLE, LA 70471 PHONE: 9152011490

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CUSTOMER NAME & ADDRESS

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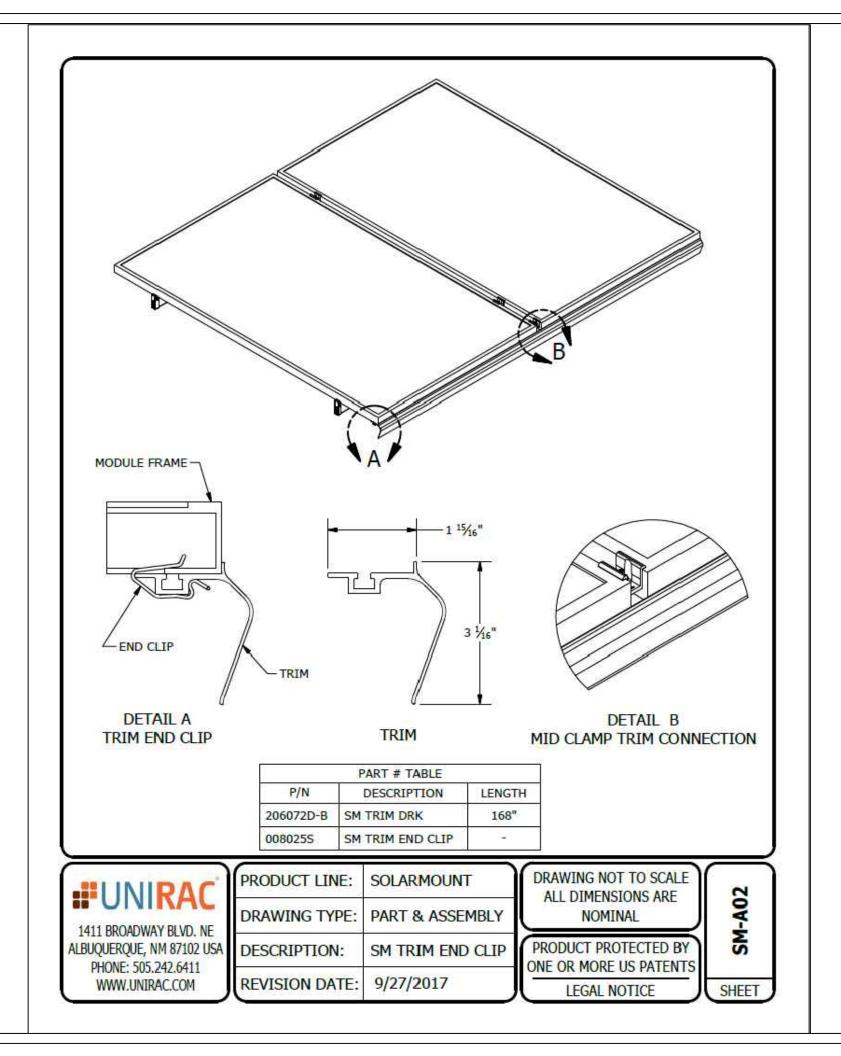
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SYSTEM SIZE:

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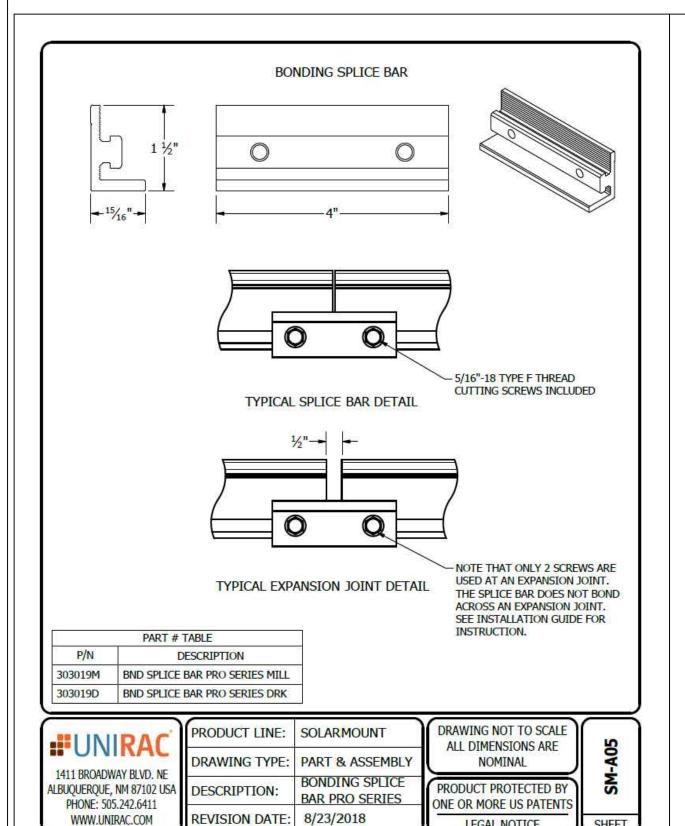
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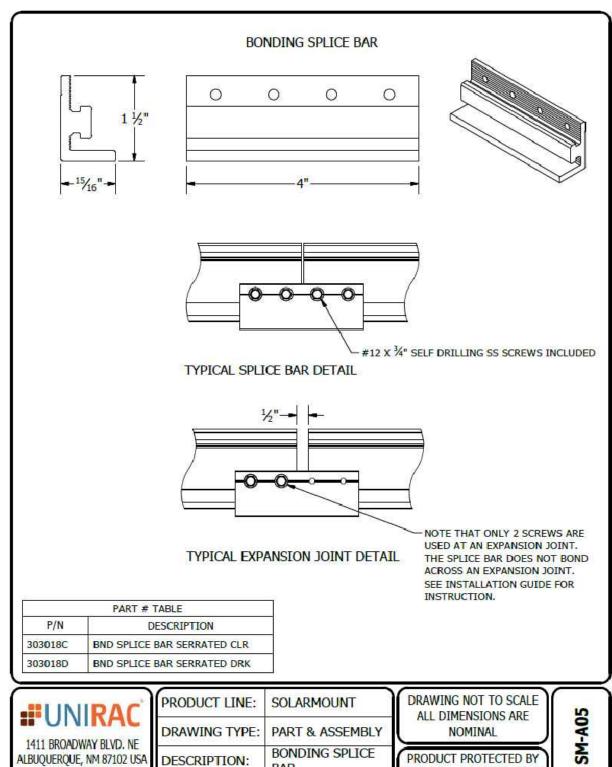
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SHEET



PART & ASSEMBLY

BONDING SPLICE

BAR

9/27/2017

DRAWING TYPE:

REVISION DATE:

DESCRIPTION:

1411 BROADWAY BLVD. NE

ALBUQUERQUE, NM 87102 USA

PHONE: 505.242.6411

WWW.UNIRAC.COM

ALL DIMENSIONS ARE

NOMINAL

PRODUCT PROTECTED BY

ONE OR MORE US PATENTS

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22171 MCH RD MANDEVILLE, LA 70471 PHONE: 9152011490

SYSTEM SIZE:

DC SIZE: 6.935 KW DC-(STC)

AC SIZE: 5.510 KW AC

CUSTOMER NAME & ADDRESS CYNTHIA PRICE

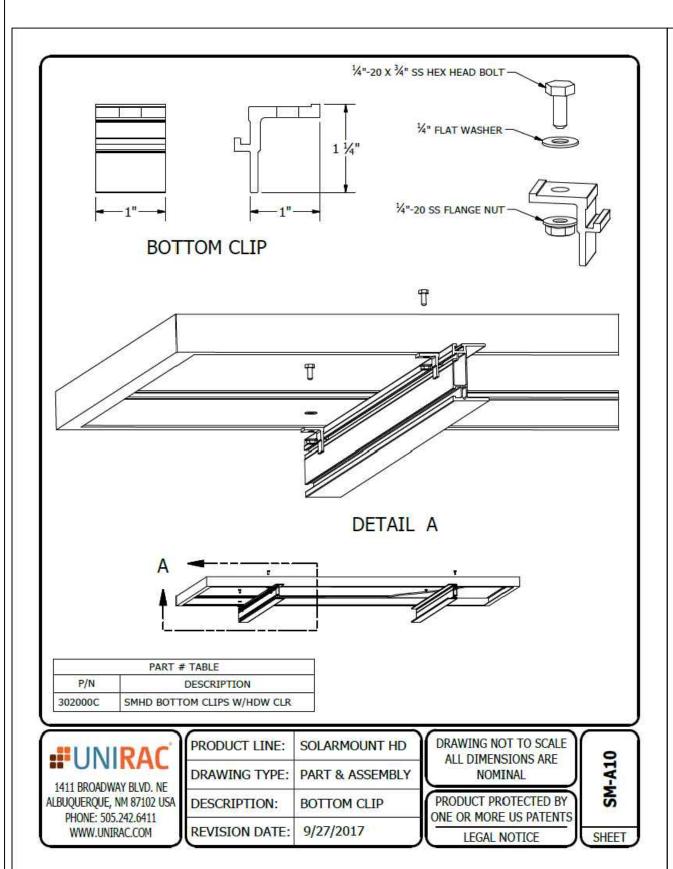
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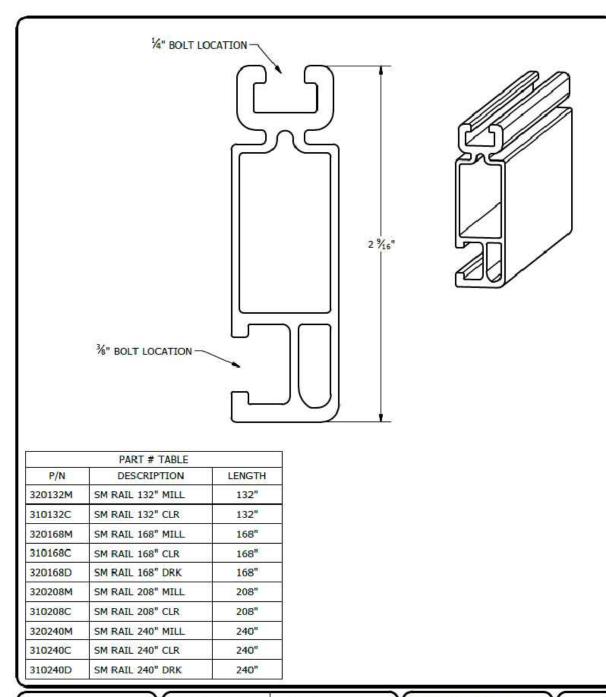
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#UNIRAC

1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM

PRODUCT LINE: SOLARMOUNT DRAWING TYPE: PART DETAIL DESCRIPTION: STANDARD RAIL 9/11/2017 REVISION DATE:

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE

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R-007

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CONTRACTOR

22171 MCH RD MANDEVILLE, LA 70471 PHONE: 9152011490

SYSTEM SIZE:

DC SIZE: 6.935 KW DC-(STC)

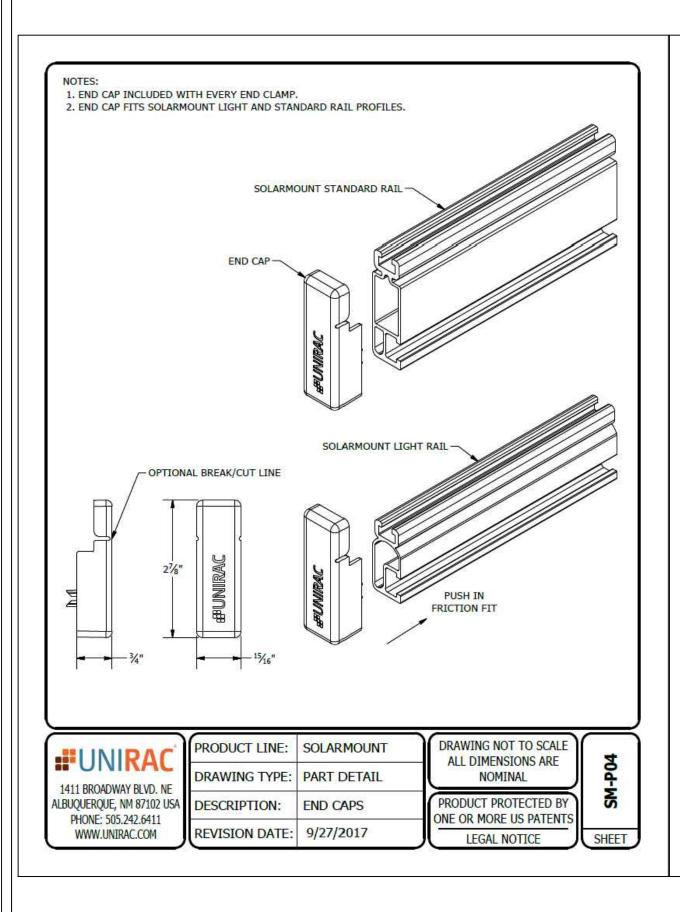
AC SIZE: 5.510 KW AC

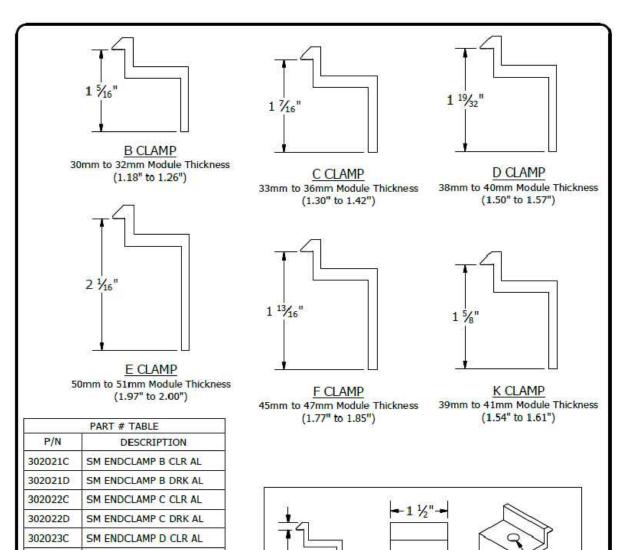
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SM ENDCLAMP FICER AL 302025C 302025D SM ENDCLAMP F DRK AL 302026C SM ENDCLAMP K CLR AL SM ENDCLAMP K DRK AL 302026D PRODUCT LINE: **#UNIRA**

SM ENDCLAMP D DRK AL

SM ENDCLAMP E CLR AL SM ENDCLAMP E DRK AL

302023D

303024C

302024D

1411 BROADWAY BLVD. NE

PHONE: 505.242.6411

WWW.UNIRAC.COM

DRAWING TYPE: ALBUQUERQUE, NM 87102 USA DESCRIPTION: REVISION DATE:

SOLARMOUNT PART DETAIL **END CLAMPS -**TOP MOUNTING 9/27/2017

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

TYPICAL END CLAMP DETAILS

PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE SHEET

1/4"0

SM-P05

CONTRACTOR

22171 MCH RD MANDEVILLE, LA 70471 PHONE: 9152011490

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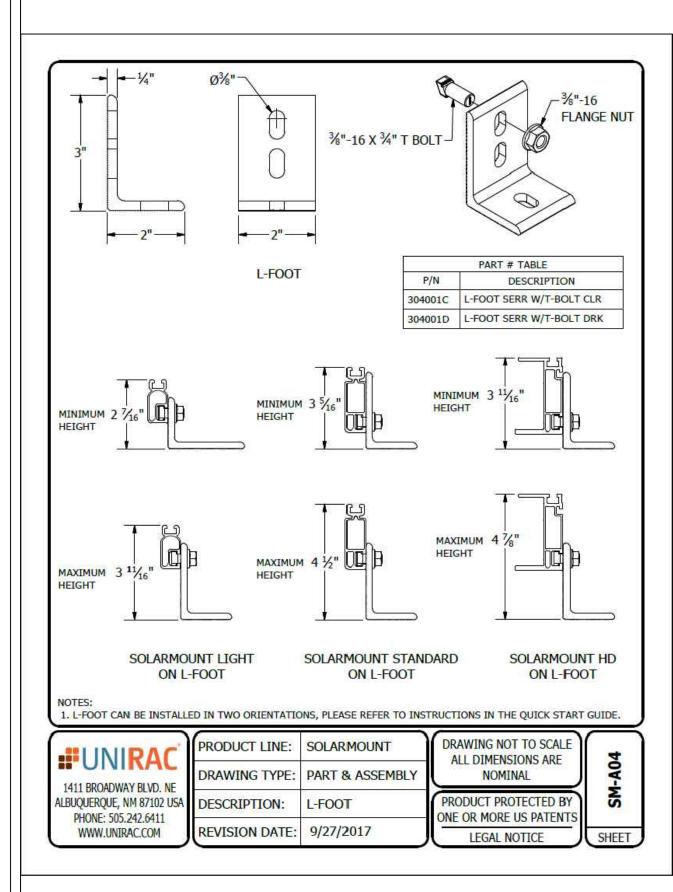
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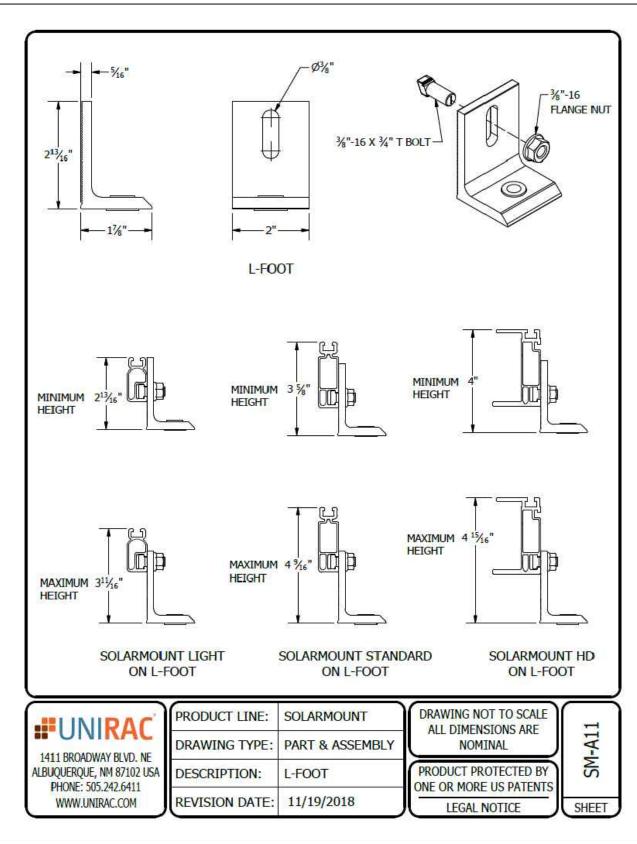
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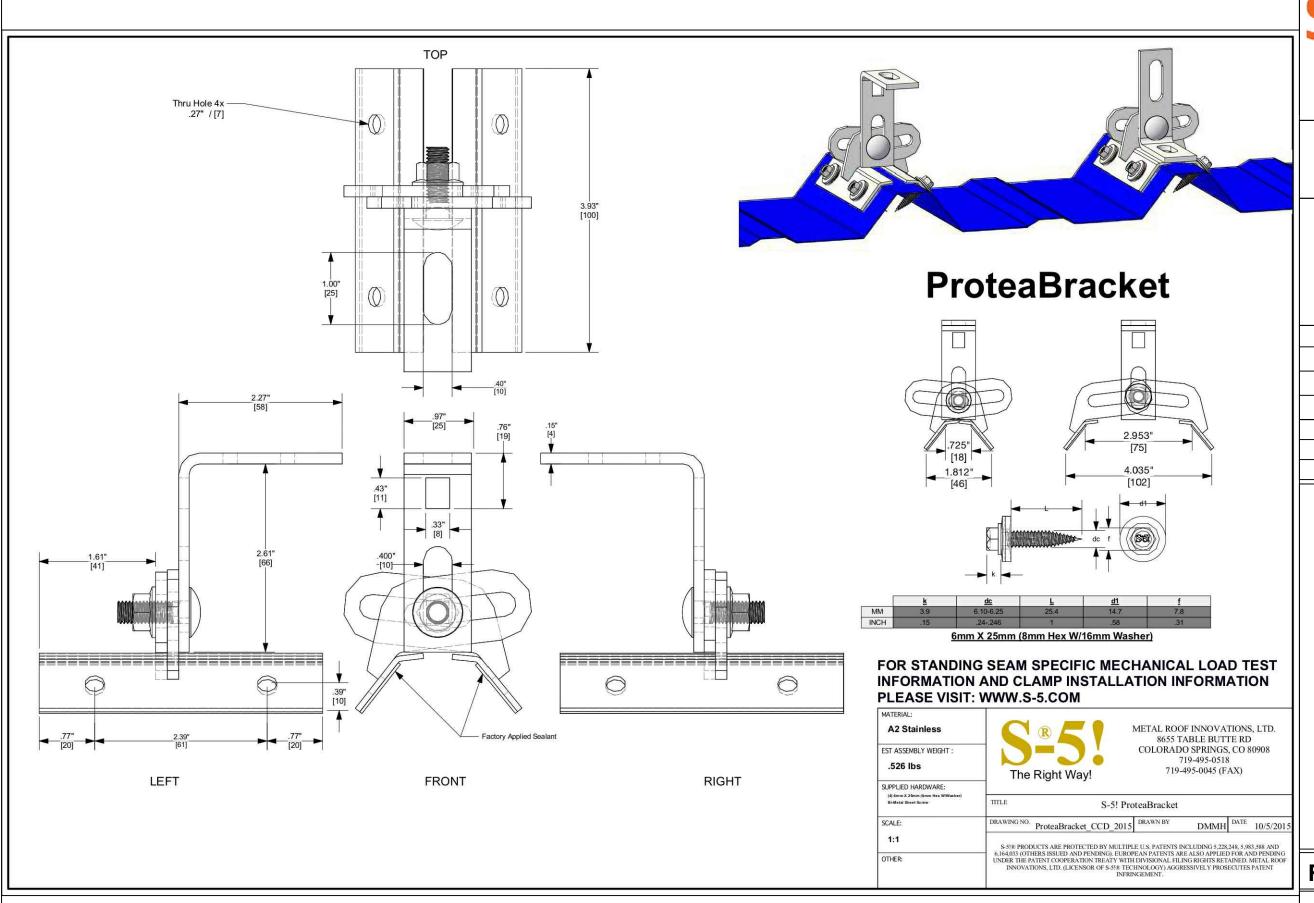
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