SCOPE OF WORK:

TO INSTALL A ROOF MOUNTED SOLAR PHOTOVOLTAIC SYSTEM AT THE OWNER RESIDENCE LOCATED AT 1502 NORTHEAST HARDAGE CIRCLE, LESS SUMMIT, MISSOURI 64086, USA. THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY GRID THROUGH THE EXISTING ELECTRICAL SERVICE EQUIPMENT.

THE PV SYSTEM DOES NOT INCLUDE STORAGE BATTERIES

EQUIPMENT SUMMARY	
13 JINKO JKM425N-54HL4-B MODULES	
13 ENPHASE IQ8PLUS-72-2-US (240V) MICROINVERTERS	

GOVERNING CODES

2018 INTERNATIONAL RESIDENCIAL CODE 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL BUILDING CODE

AUTHORITY HAVING JURISDICTION: CITY OF LEE'S SUMMIT

GENERAL NOTES:

- THESE CONSTRUCTION DOCUMENTS HAVE BEEN BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS IN CONSTRUCTION DETAILS.
- ARCHITECT HAS NOT BEEN RETAINED TO SUPERVISE ANY CONSTRUCTION OR INSTALLATION OF ANY EQUIPMENT AT SITE.
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, OBTAINS ALL PERMITS, LICENSES AND PAY ALL REQUIRED FEES AND COMPLETE INSTALLATION.
- CONTRACTOR HAS THE FULL RESPONSIBILITY TO CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ANY WORK STARTED BEFORE CONSULTATION AND ACCEPTANCE BY THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CORRECTION BY THEM WITHOUT ADDITIONAL COMPENSATION.
- DAMAGE CAUSED TO THE EXISTING STRUCTURE, PIPES, DUCTS, WINDOWS, WALL FLOORS, ETC. SHALL BE REPAIRED TO THE ORIGINAL CONDITION OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED MATERIALS.
- NO CHANGES ARE TO BE MADE WITHOUT THE CONSULTATION AND APPROVAL OF THE **ARCHITECT**
- CONTRACTOR SHALL OBTAIN BULDING PERMIT. NO WORK TO START UNLESS BUILDING PERMIT IS PROPERLY DISPLAYED.
- ALL WORKMANSHIP AND MATERIALS SHALL BE OF FIRST QUALITY AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE MISSOURI BUILDING CODE, THE DEPARTMENT OF **ENVIRONMENTAL PROTECTION AND ALL PERTINENT AGENCIES**
- IT IS ESSENTIAL THAT ALL WORK PROCEED WITH THE MAXIMUM COOPERATION OF ALL PARTIES AND WITH MINIMUM INTERFERENCE TO THE OCCUPANTS WITHIN THE BUILDING. THE OWNER'S DIRECTIONS IN THIS REGARD SHALL BE FULLY COMPLIED WITH.
- ALL EXPOSED PLUMBING, HVAC, ELECTRICAL DUCTWORK, PIPING AND CONDUITS ARE TO BE PAINTED BY GENERAL CONTRACTOR.
- THE CONTRACTOR SHALL PERFORM THE WORK IN STRICT CONFORMANCE WITH THE LOCAL LAWS, REGULATIONS AND THE NATIONAL ELECTRIC CODE.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, AFFIDAVITS, CERTIFICATIONS, ETC. AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITIES.
- CONTRACTORS SHALL OBTAIN FIRE CERTIF. UPON COMPLETION OF WORK.

- ALL CONDUIT SIZES AND TYPES, SHALL BE LISTED FOR ITS PURPOSE AND APPROVED FOR THE SITE APPLICATIONS
- ALL PV CABLES AND HOMERUN WIRES BE #10AWG *USE-2, PV WIRE, OR PROPRIETARY SOLAR CABLING SPECIFIED BY MFR, OR EQUIVALENT; ROUTED TO SOURCE CIRCUIT COMBINER **BOXES AS REQUIRED**
- ALL CONDUCTORS AND OCPD SIZES AND TYPES SPECIFIED ACCORDING TO [NEC 690.8 (A)(1) & (B)(1)], [NEC 240] [NEC 690.7] FOR MULTIPLE CONDUCTORS
- ALL PV DC CONDUCTORS IN CONDUIT EXPOSED TO SUNLIGHT SHALL BE DERATED ACCORDING TO [NEC TABLE 310.15 (B)(2)(C)] BLACK ONLY**
- EXPOSED ROOF PV DC CONDUCTORS SHALL BE USE-2, 90°C RATED, WET AND UV RESISTANT, AND UL LISTED RATED FOR 600V, UV RATED SPIRAL WRAP SHALL BE USED TO PROTECT
- PHASE AND NEUTRAL CONDUCTORS SHALL BE DUAL RATED THHN/THWN-2 INSULATED, 90°C RATED, WET AND UV RESISTANT, RATED FOR 600V PER NEC 2008 OR 1000V PER
- 4-WIRE DELTA CONNECTED SYSTEMS HAVE THE PHASE WITH THE HIGHER VOLTAGE TO GROUND MARKED ORANGE OR IDENTIFIED BY OTHER EFFECTIVE MEANS
- VOLTAGE DROP LIMITED TO 2% FOR DC CIRCUITS AND 1%

WIRING AND CONDUIT NOTES:

- WIRE FROM SHARP EDGES
- **NEC 2017**
- ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE
- **CIRCUIT PROTECTION**
- FOR AC CIRCUITS
- AC CONDUCTORS >4AWG COLOR CODED OR MARKED: PHASE A OR L1- BLACK, PHASE B OR L2- RED, PHASE C OR L3- BLUE, **NEUTRAL-WHITE/GRAY**

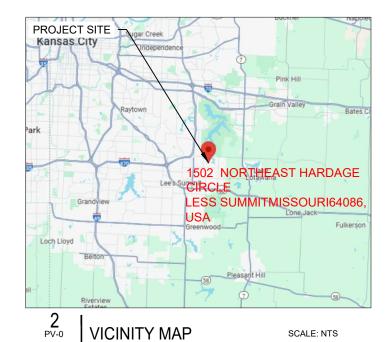
SYSTEM RATING 5.53 KWDC 3.77 KWAC

	SHEET INDEX
PV-0	COVER PAGE
PV-1	SITE PLAN
PV-2	ROOF PLAN & MODULES
PV-2A	STRING LAYOUT & BOM
PV-3	ATTACHMENT DETAIL
PV-4	ELECTRICAL LINE & CALCS
PV-4A	SPECIFICATIONS & NOTES
PV-5	SIGNAGE
PV-6+	EQUIPMENT SPECIFICATIONS



HOUSE PHOTO

SCALE: NTS



5709 GARDENDALE DR **HOUSTON TX 77092**

REVISIONS						
ESCRIPTION	DATE	REV				

Signature with Seal

)3/06/2025

PROJECT NAME & ADDRESS

, MISSOURI 64086 USA NORTHEAST HARDAGI CIRCLE SARAH BENNETT RESIDENC SUMMIT. 1502

> DATE: 12/20/2024 DESIGNER DETAILS

ESS

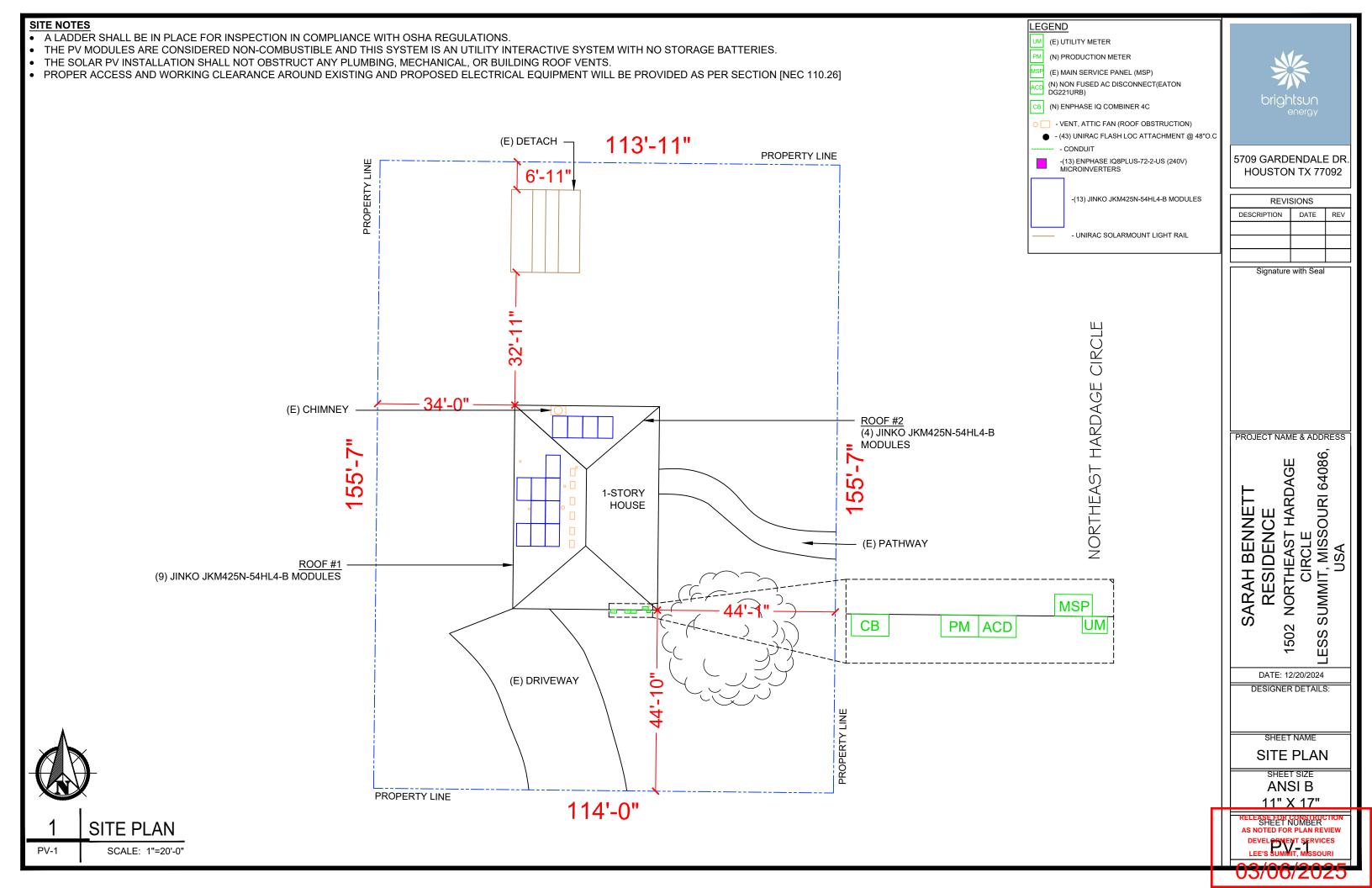
COVER PAGE

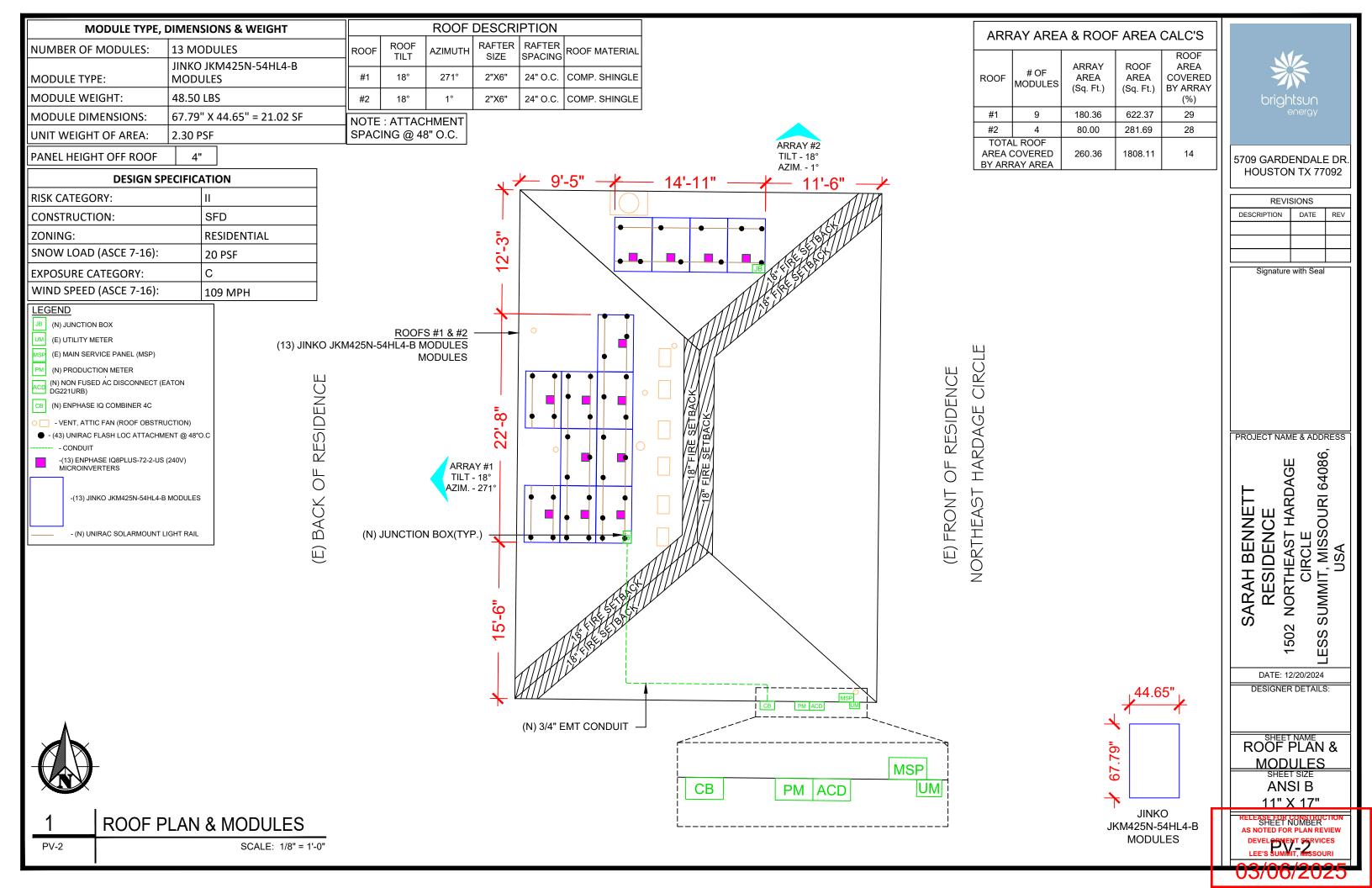
ANSIB 11" X 17'

SHEET NUMBER

PV-0

- THE EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE INSTALLED ONLY BY QUALIFIED PEOPLE. A QUALIFIED PERSON IS ONE WHO HAS SKILLS AND KNOWLEDGE RELATED TO THE CONSTRUCTION AND OPERATION OF THE ELECTRICAL EQUIPMENT AND INSTALLATIONS AND HAS RECIEVED SAFETY TRAINING TO RECOGNIZE AND AVOID THE HAZARDS INVOLVED. (NEC 690.4(E) AND 705.6)
- LOCAL UTILITY PROVIDER SHALL BE NOTIFIED PRIOR TO USE AND ACTIVATION OF ANY SOLAR PHOTOVOLTAIC INSTALLATION. FOR A LINE SIDE TAP CONNECTION, UTILITY NEEDS TO BE NOTIFIED WELL IN ADVANCE TO COORDINATE BUILDING ELECTRICAL SHUT OFF.
- NEW CONDUIT ROUTING SHOWN IS ESSENTIALLY SCHEMATIC. SUBCONTRACTOR SHALL LAY OUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES
- ARRAY WIRING SHOULD NOT BE READILY ACCESSIBLE EXCEPT TO QUALIFIED PERSONNEL.
- ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE WATERTIGHT AND APPROVED FOR USE IN WET LOCATIONS. (NEC 314.15A).
- WIRING METHODS FOR PV SYSTEM CONDUCTORS AREN'T PERMITTED WITHIN 10 IN. OF THE ROOF DECKING OR SHEATHING EXCEPT WHERE LOCATED DIRECTLY BELOW THE ROOF SURFACE THAT'S COVERED BY PV MODULES AND ASSOCIATED EQUIPMENT WIRING
- BACK-FED BREAKER MUST BE AT THE OPPOSITE END OF BUS BAR FROM THE MAIN BREAKER OR MAIN LUG SUPPLYING CURRENT FROM THE UTILITIES.
- ALL CONDUCTORS AND WIRE TIES EXPOSED TO SUNLIGHT ARE LISTED AS UV RESISTANT.
- CONTRACTOR SHALL FOLLOW ALL ELECTRICAL EQUIPMENT LABELING REQUIREMENTS IN NEC 690 AND IFC 2018
- MEASURE THE LINE-TO-LINE AND LINE-TO-NEUTRAL VOLTAGE OF ALL SERVICE ENTRANCE CONDUCTORS PROIR TO INSTALLING ANY SOLAR EQUIPMENT. THE **VOLTAGES FOR THE 240VAC RATED**





BILL OF MATERIALS						
EQUIPMENT	QTY	DESCRIPTION				
SOLAR PV MODULE	13	JINKO JKM425N-54HL4-B MODULES				
MICROINVERTER	13	ENPHASE IQ8PLUS-72-2-US (240V) MICROINVERTERS				
COMBINER BOX	1	ENPHASE IQ COMBINER 4C W/ IQ GATEWAY (X-IQ-AM1-240-4C)				
SMART METER	1	PRODUCTION METER				
AC DISCONNECT	1	30A NON FUSED AC DISCONNECT, (EATON DG221URB), 240V NEMA ,3R UL LISTED				
JUNCTION BOX	2	JUNCTION BOX, NEMA 3R, UL LISTED				
ENPHASE Q CABLE	19	ENPHASE Q CABLE 240V (PER CONNECTOR)				
BRANCH TERMINATOR	1	BRANCH TERMINATOR				
IQ WATER TIGHT CAP	6	IQ WATER TIGHT CAP				
ATTACHMENT	43	5/16" x 4" SS LAG BOLT W/ SS EPDM BONDED WASHER				
ATTACHMENT	43	SS SERRATED T-BOLT W/ SS SERRATED FLANGE NUT				
ATTACHMENT	43	FLASHLOC BASE				
RAILS	10	UNIRAC SOLARMOUNT LIGHT RAIL 14 FEET (168")				
SPLICE	4	RAIL SPLICE				
CLAMPS	16	MODULES CLAMPS (MID CLAMPS)				
CLAMPS	20	MODULES CLAMPS (END CLAMPS)				
GROUNDING LUG	5	GROUNDING LUG				

(13) BRANCH-1 PM ACD

NORTHEAST HARDAGE CIRCLE (E) FRONT OF RESIDENCE

5709 GARDENDALE DR. HOUSTON TX 77092

REVISIONS								
DESCRIPTION	DATE	REV						

PROJECT NAME & ADDRESS

SARAH BENNETT
RESIDENCE
1502 NORTHEAST HARDAGE
CIRCLE
CIRCLE
LESS SUMMIT, MISSOURI 64086, USA

DATE: 12/20/2024

DESIGNER DETAILS:

SHEET NAME STRING LAYOUT & BOM SHEET SIZE ANSI B

11" X 17"

RELEASE FOR CONSTRUCTION SHEET NUMBER AS NOTED FOR PLAN REVIEW

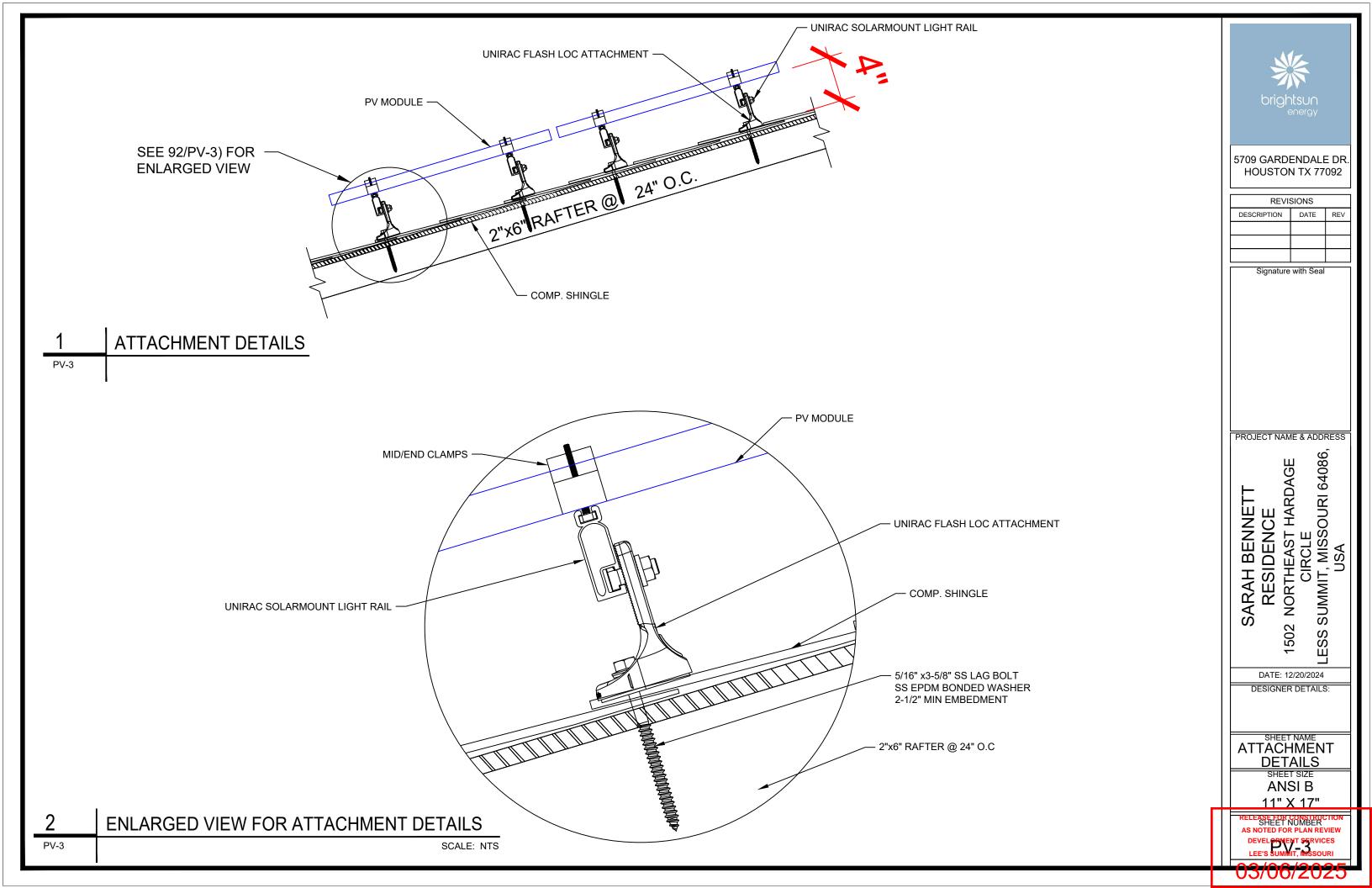
(E) BACK OF RESIDENCE



STRING LAYOUT & BOM

PV-2A

SCALE: 1/8" = 1'-0"



ID	TYPICAL	INITIAL CONDUCTOR LOCATION	FINAL CONDUCTOR LOCATION	CONDU	CTOR	CONDUIT	# OF PARALLEL CIRCUITS		1 (1 () () () () () () ()	OCPD	E	GC		CORR.	CONDUIT FILL FACTOR	CONT. CURRENT	MAX. CURRENT	BASE AMP.	DERATED AMP.	TERM. TEMP. RATING	LENGTH	VOLTAGE DROP
1	1	STRING	JUNCTION BOX	12 AWG Q CAI	BLE _	-	1	2	N/A	N/A	6 AWG	BARE COPPER	0.71	(57°C)	N/A	15.73A	19.66A	N/A	N/A	75°C	63FT	1.36%
2	1	JUNCTION BOX	COMBINER BOX	10 AWG THW	N-2 COPPE	R MIN 0.75" Dia EM	Г 1	2	11.45%	20A	8 AWG	THWN-2 COPPER	0.96	(35°C)	1	15.73A	19.66A	40A	38.4A	75°C	32FT	0.53%
3	1	COMBINER BOX	PRODUCTION METER	10 AWG THW	N-2 COPPE	R MIN 0.75" Dia EM	Г 1	3	15.27%	N/A	6 AWG	THWN-2 COPPER	0.96	(35°C)	1	15.73A	19.66A	40A	38.4A	75°C	5FT	0.03%
4	1	PRODUCTION METER	NON FUSED AC DISCONNECT	10 AWG THW	N-2 COPPE	R MIN 0.75" Dia EM	Г 1	3	15.27%	N/A	6 AWG	THWN-2 COPPER	0.96	(35°C)	1	15.73A	19.66A	40A	38.4A	75°C	5FT	0.03%
5	1	NON FUSED AC DISCONNECT	MSP	10 AWG THW	N-2 COPPE	R MIN 0.75" Dia EM	Γ 1	3	15.27%	20A	6 AWG	THWN-2 COPPER	0.96	(35°C)	1	15.73A	19.66A	40A	38.4A	75°C	5FT	0.03%



5709 GARDENDALE DR. **HOUSTON TX 77092**

REVISIONS								
DESCRIPTION	DATE	REV						

Signature with Seal

PROJECT NAME & ADDRESS

1502 NORTHEAST HARDAGE
CIRCLE
CIRCLE
LESS SUMMIT, MISSOURI 64086,
USA SARAH BENNETT RESIDENCE

DATE: 12/20/2024

DESIGNER DETAILS:

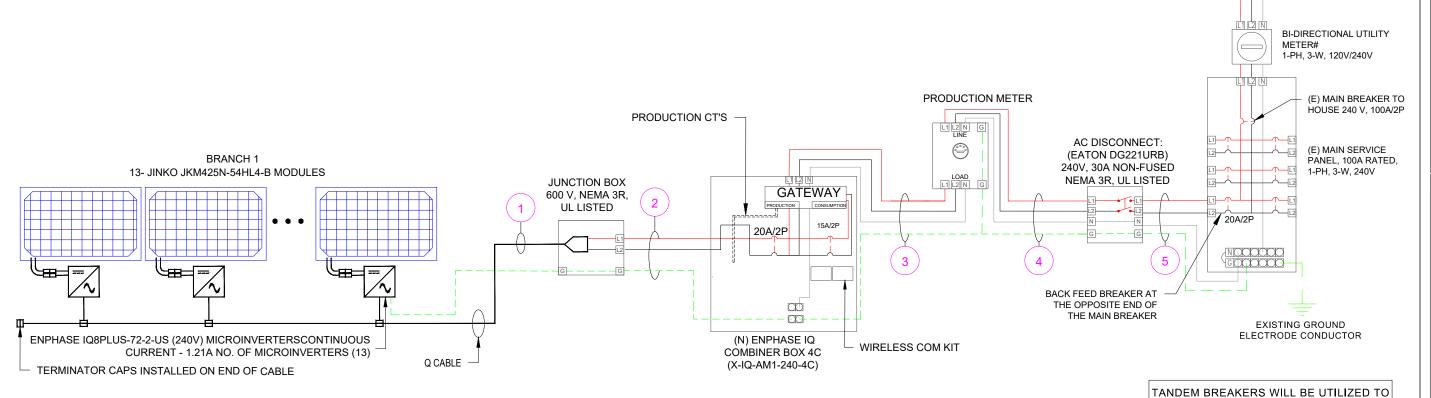
SHEET NAME ELECTRICAL LINE & CALCS

SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER
AS NOTED FOR PLAN REVIEW

03/06/2025



120% RULE - NEC 705.12(B)(2)(3)(b)

UTILITY FEED + SOLAR BACKFEED

100 A + 20A = 120A

BUSS RATING x 120%

100 A x 120% = 120A

INTERCONNECTION

AHJ NAME: CITY OF LEE'S SUMMIT

ACCOMMODATE PV BREAKER

TO UTILITY GRID

MAIN SERVICE VOLTAGE: 240V MAIN SERVICE PANEL: 100A MAIN CIRCUIT BREAKER RATING: 100A MAIN SERVICE LOCATION: SOUTH-EAST SERVICE FEED SOURCE: OVERHEAD

SERVICE INFO

ELECTRICAL LINE & CALCS

SCALE: NTS

SOLAR MODULE SPECIFICATIONS								
MANUFACTURER / MODEL	JINKO JKM425N-54HL4-B MODULES							
VMP	32.37 V							
IMP	13.13 A							
VOC	38.95 V							
ISC	13.58 A							
TEMP. COEFF. VOC	-0.25%/C							
MODULE DIMENSION	67.79"(L) x 44.65"(W)							
PANEL WATTAGE	425W							
PTC RATING	398.1W							

INVERTER SPECIFICATION							
MANUFACTURER / MODEL	ENPHASE IQ8PLUS-72-2-US (240V) MICROINVERTERS						
MAX DC SHORT CIRCUIT CURRENT	25 A						
CONTINUOUS OUTPUT CURRENT	1.21 (240 V)						

AMBIENT TEMPERATURE SPECS					
RECORD LOW TEMP	-19°C				
AMBIENT TEMP (HIGH TEMP 2%)	35°C				
CONDUIT HEIGHT	0.5"				
ROOF TOP TEMP	75°C				
CONDUCTOR TEMPERATURE RATE	57°C				
MODULE TEMPERATURE COEFFICIENT OF VOC	-0.25%/C				

PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT
1	1-3
0.80	4-6
0.70	7-9
0.50	10-20

Voltage rise in Q Cable from the Microinverters to the Junction Box

For branch circuit #1 of 13 IQ 8+ Micros, the voltage rise on the 240 VAC Q Cable is 1.36%

Voltage rise from the Junction Box to the IQ Combiner box

VRise = (amps/inverter × number of inverters) × (resistance in Ω/ft) × (2-way wire length in ft.)

- = $(1.21 \text{ amp} \times 13) \times (0.00129 \Omega/\text{ft}) \times (32 \text{ ft} \times 2)$
- = 15.73 amps × 0.00129 Ω/ft × 64 ft
- = 1.29 volts

%VRise =1.29 volts ÷ 240 volts = 0.53%

The voltage rise from the Junction Box to the IQ Combiner Box is 0.53%

Voltage rise from the IQ Combiner box to the Production Meter

VRise = (amps/inverter × number of inverters) × (resistance in $\Omega/\text{ft.}$) × (2-way wire length in ft.)

- = $(1.21 \text{ amp} \times 13) \times (0.00129 \Omega/\text{ft}) \times (2 \text{ ft.} \times 2)$
- = 15.73 amps × 0.00129 Ω/ft × 4 ft.
- = 0.08 volts

 $%VRise = 0.08 \text{ volts} \div 240 \text{ volts} = 0.03\%$

The voltage rise from the IQ Combiner Box to the Production Meter is 0.03%

Voltage rise from the Production Meter to Non Fused AC Disconnect

VRise = (amps/inverter × number of inverters) × (resistance in $\Omega/\text{ft.}$) × (2-way wire length in ft.)

- = $(1.21 \text{ amp } \times 13) \times (0.00129 \Omega/\text{ft}) \times (2 \text{ ft.} \times 2)$
- = 15.73 amps × 0.00129 Ω/ft × 4 ft.
- = 0.08 volts

%VRise = 0.08 volts ÷ 240 volts = 0.03%

The voltage rise from the Production Meter to the Non Fused AC Disconnect is 0.03%

Voltage rise from the Non Fused AC Disconnect to Main Service Panel

VRise = (amps/inverter × number of inverters) × (resistance in $\Omega/\text{ft.}$) × (2-way wire length in ft.)

- = $(1.21 \text{ amp} \times 13) \times (0.00129 \Omega/\text{ft}) \times (2 \text{ ft.} \times 2)$
- = 15.73 amps × 0.00129 Ω/ft × 10 ft.
- = 0.08 volts

%VRise = 0.08 volts ÷ 240 volts = 0.03%

The voltage rise from the Non Fused AC Disconnect to the Main Service Panel is 0.03%

Total system voltage rise for all three wire sections

1.36% + 0.53% + 0.03% + 0.03% + 0.03% = 1.98%



5709 GARDENDALE DR. HOUSTON TX 77092

REVI	SIONS	
DESCRIPTION	DATE	REV

Signature with Se

PROJECT NAME & ADDRES

SARAH BENNETT
RESIDENCE
2 NORTHEAST HARDAGE
CIRCLE
SUMMIT, MISSOURI 64086,
USA

DATE: 12/20/2024
DESIGNER DETAILS:

SHEET NAME SPECIFICATIONS

& NOTES
SHEET SIZE
ANSI B
11" X 17"

RELEASE FOR CONSTRUCTION
SHEET NUMBER
AS NOTED FOR PLAN REVIEW
DEVELORMENT SERVICES

1

WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS **TERMINALS ON BOTH LINE AND** LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION: POINT OF INTERCONNECTION, (PER CODE: NEC 690.17(E))

WARNING - Electric Shock Hazard No user serviceable parts inside Contact authorized service provider for ass

LABEL LOCATION: INVERTER, JUNCTION BOXES (ROOF), (PER CODE: NEC690.13.G.3 & NEC 690.13.G.4)

3

WARNING: DUAL POWER SOURCE ECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION: POINT OF INTERCONNECTION (PER CODE: NEC 705.12(D)(4))

WARNING: PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION: CONDUIT, COMBINER BOX (PER CODE: NEC690.31(G)(3)(4) & NEC 690.13(G)(4) 5

PHOTOVOLTAIC SYSTEM AC DISCONNECT RATED AC OUTPUT CURRENT 15.73 AMPS NOMINAL OPERATING AC VOLTAGE 240 VOLTS

LABEL LOCATION:
POINT OF INTERCONNECTION, (PER CODE: NEC 690.54)

6

WARNING

INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION: POINT OF INTERCONNECTION (PER CODE: NEC 705.12(D)(7))

[Not required if panelboard is rated not less than sum of ampere ratings of all overcurrent devices supplying it]

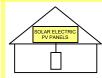
CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED

LABEL LOCATION: POINT OF INTERCONNECTION (PER CODE: NEC690.15, 690.13(B)) INVERTER

8

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN URN RAPID SHUTDOWN

SWITCH TO THE "OFF" POSITION TO HUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY



LABEL PER NEC 690.56(C)- PROVIDE AT AC DISCONNECT FOR RAPID SHUTDOWN COMPLIANT SYSTEM

CAUTION: SOLAR CIRCUIT

LABEL LOCATION:

MARKINGS PLACED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES AT LEAST EVERY 10 FT, AT TURNS AND ABOVE/BELOW PENETRATIONS AND ALL COMBINER/JUCTION BOXES. (PER CODE:



5709 GARDENDALE DR. **HOUSTON TX 77092**

REVISIONS			
DESCRIPTION	DATE	REV	

Signature with Seal

PROJECT NAME & ADDRESS

D2 NORTHEAST HARDAGE CIRCLE S SUMMIT, MISSOURI 64086, USA SARAH BENNETI RESIDENCI 1502

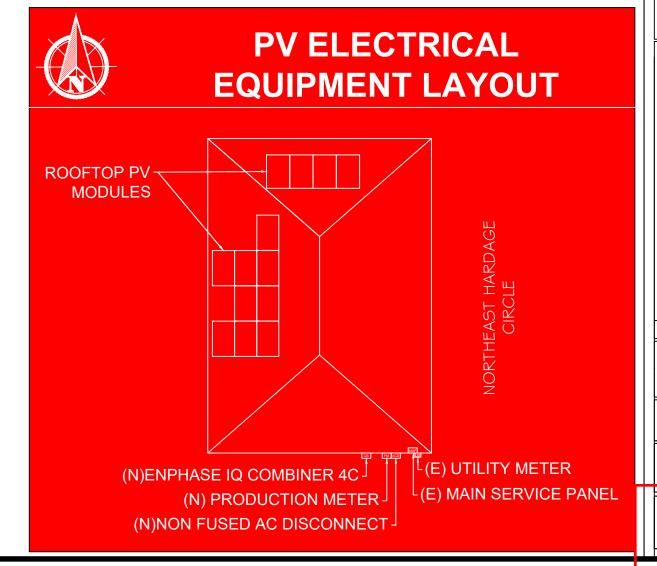
> DATE: 12/20/2024 DESIGNER DETAILS:

> > SHEET NAME

SIGNAGE

11" X 17"

SHEET SIZE ANSI B



www.jinkosolar.com



Tiger Neo N-type 54HL4-B 425 Watt

ALL-BLACK MODULE

N-Type

Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

Occupational health and safety management systems





Better light trapping and current collection to improve module power output and reliability.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Hot 2.0 Technology

The N-type module with $\,$ Hot 2.0 technology has better reliability and lower LID/LETID.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



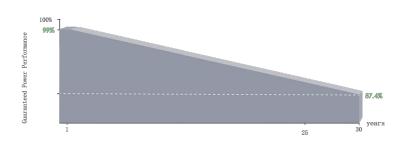








LINEAR PERFORMANCE WARRANTY

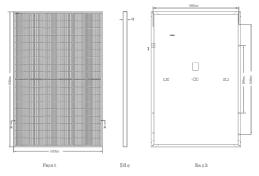


25 Year Product Wa rranty

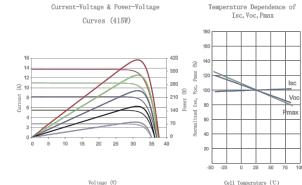
30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

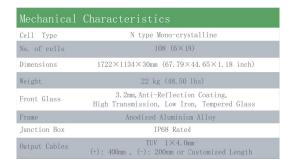
Engineering Drawings



lectrical Performance & Temperature Dependence







SPECIFICATIONS		
Module Type		JKM425N-54HL4-H
		STC NOCT
Maximum Power (Pmax)		425Wp 320Wp
Maximum Power Voltage (Vmp)		32. 37V 30. 19
Maximum Power Current (Imp)		13. 13A 10. 60
Open-circuit Voltage (Voc)		38. 95V 37. 00
Short-circuit Current (Isc)		13. 58A 10. 96
Module Efficiency STC (%)		21. 76%
Operating Temperature(°C)		-40°C~+85 °C
Maximum system voltage		1000VDC (IEC)
Maximum series fuse rating		25A
Power tolerance		0~+3%
Temperature coefficients of Pmax		−0. 29%/°C
Temperature coefficients of Voc		−0. 25%/°C
Temperature coefficients of Isc		0. 045%/°C
Nominal operating cell temperature	(NOCT)	45±2℃



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JKM425N-54HL4-B-F3C2-EN (IEC 2016)



5709 GARDENDALE DR **HOUSTON TX 77092**

REVISIONS		
DESCRIPTION	DATE	REV

Signature with Seal

PROJECT NAME & ADDRESS

SARAH BENNETT
RESIDENCE

12 NORTHEAST HARDAGE
CIRCLE
S SUMMIT, MISSOURI 64086,
USA

DATE: 12/20/2024 DESIGNER DETAILS:

EQUIPMENT SPECIFICATION

> **ANSI B** 11" X 17"

SHEET NUMBER DEVELOPMENT SERVICES
LEE'S SUMMIT, INSSOURI







IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC), which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built using advanced 55-nm technology with high-speed digital logic and has superfast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System. IQ8 Series Microinverters integrate with the IQ Battery, IQ Gateway, and the Enphase App monitoring and analysis



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-and-play MC4 connectors.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



IQ8 Series Microinverters are UL Listed as PV rapid shutdown equipment and conform with various regulations, when installed according to the manufacturer's instructions.

*Meets UL 1741 only when installed with IQ System Controller 2.

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Easy to install

- · Lightweight and compact with plugand-play connectors
- Power line communication (PLC)
- · Faster installation with simple two-wire

High productivity and reliability

- Produce power even when the grid is
- · More than one million cumulative hours of testing
- · Class II double-insulated enclosure
- · Optimized for the latest high-powered PV modules

Microgrid-forming

- · Compliant with the latest advanced grid support**
- · Remote automatic updates for the latest grid requirements
- · Configurable to support a wide range of grid profiles
- Meet CA Rule 21 (UL 1741-SA) and IEEE® 1547:2018 (UL 1741-SB 3rd Ed.)

- IQ8 Microinverters cannot be mixed with previous generations of Enphase microinverters (IQ7 Series, IQ6 Series, and so on) in the same
- IQ Gateway is required to change the default grid profile at the time of installation to meet local Authority Having Jurisdiction (AHJ) requirements.

IQ8SP-12A-DSH-00207-2.0-EN-US-2023-10-13

IQ8 and IQ8+ Microinverters

NPUT DATA (DC)	UNITS	108-60-2-US	IQ8PLUS-72-2-US
Commonly used module pairings ¹	W	235-350	235-440
Module compatibility	_	To meet compatibility, PV modules must be within maximum Module compatibility can be checked at	

(2) Nominal voltage range can be extended beyond nominal if required by the utility.

(3) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

IQ8SP-12A-DSH-00207-2.0-EN-US-2023-10-13



5709 GARDENDALE DR. HOUSTON TX 77092

REVISIONS		
DESCRIPTION	DATE	REV

Signature with Seal

PROJECT NAME & ADDRESS

SARAH BENNETT
RESIDENCE

12 NORTHEAST HARDAGE
CIRCLE
S SUMMIT, MISSOURI 64086,
USA

DATE: 12/20/2024 DESIGNER DETAILS:

1502

S

SHEET NAME EQUIPMENT **SPECIFICATION**

ANSI B 11" X 17"

ELEASE FOR CONSTRU SHEET NUMBER DEVELORMENT SERVICES
LEE'S SUMMIT, MISSOURI

Data Sheet Enphase Networking

IQ Combiner 4/4C



X2-IQ-AM1-240-4 (IEEE 1547:2018)

The IQ Combiner 4/4C with IQ Gateway and integrated LTE-M1 cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure. It streamlines IQ Microinverters 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 Gateway for communication and control
- Includes Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), included only with IQ Combiner 4C
- Includes solar shield to match Enphase IQ Battery aesthetics and deflect heat
- Supports Wi-Fi, Ethernet, or cellular connectivity
- Optional AC receptacle available for PLC bridge
- Provides production metering and consumption monitoring

Simple

- · Mounts on single stud with centered brackets
- · Supports bottom, back and side conduit entry
- Allows up to four 2-pole branch circuits for 240VAC plug-in breakers (not included)
- 80A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- · Five-year limited warranty
- Two years labor reimbursement program coverage included for both the IQ Combiner SKU's
- III liste
- X2-IQ-AM1-240-4 and X2-IQ-AM1-240-4C comply with IEEE 1547:2018 (UL 1741-SB, 3rd Ed.)



To learn more about Enphase offerings, visit <u>enphase.com</u> IQ-C-4-4C-DS-0103-EN-US-12-29-2022



IQ Combiner 4/4C

MODEL NUMBER	
IQ Combiner 4 X-IQ-AM1-240-4	IQ Combiner 4 with IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 \pm 0.5%) and consumption monitoring (\pm 2.5%). Includes a silver solar shield to match the IQ Battery and IQ System Controller 2 and to
X2-IQ-AM1-240-4 (IEEE 1547:2018)	deflect heat.
IQ Combiner 4C X-IQ-AM1-240-4C	IQ Combiner 4C with IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 ± 0.5% and consumption monitoring (± 2.5%). Includes Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), a plug-and-play
X2-IQ-AM1-240-4C (IEEE 1547:2018)	industrial-grade cell modem 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.) Includes a silver solar shield to match the IQ Battery and IQ System Controller and to deflect heat.
ACCESSORIES AND REPLACEMENT PARTS	
Supported microinverters	IQ6, IQ7, and IQ8. (Do not mix IQ6/7 Microinverters with IQ8)
Communications Kit	,
COMMS-CELLMODEM-M1-06	- Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan
CELLMODEM-M1-06-SP-05	- 4G based LTE-M1 cellular modem with 5-year Sprint data plan
CELLMODEM-M1-06-AT-05 Circuit Breakers	- 4G based LTE-M1 cellular modem with 5-year AT&T data plan
BRK-10A-2-240V	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 10A, Eaton BR210
BRK-15A-2-240V	Circuit breaker, 2 pole, 15A, Eaton BR215
BRK-20A-2P-240V	Circuit breaker, 2 pole, 20A, Eaton BR220
BRK-15A-2P-240V-B BRK-20A-2P-240V-B	Circuit breaker, 2 pole, 15A, Eaton BR215B with hold down kit support Circuit breaker, 2 pole, 20A, Eaton BR220B with hold down kit support
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 4/4C
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 4/4C (required for EPLC-01)
X-IQ-NA-HD-125A	Hold-down kit for Eaton circuit breaker with screws
Consumption monitoring CT (CT-200-SPLIT/CT-200-CLAMP)	A pair of 200A split core current transformers
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240VAC, 60 Hz
Eaton BR series busbar rating	125A
Max. continuous current rating	65A
Max. continuous current rating (input from PV/storage)	64A
Max. fuse/circuit rating (output)	90A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max. total branch circuit breaker rating (input)	80A of distributed generation/95A with IQ Gateway breaker included
IQ Gateway breaker	10A or 15A rating GE/Siemens/Eaton included
Production metering CT	200A solid core pre-installed and wired to IQ Gateway
MECHANICAL DATA	
Dimensions (WxHxD)	37.5 cm x 49.5 cm x 16.8 cm (14.75 in x 19.5 in x 6.63 in). Height is 53.5 cm (21.06 in) with mounting brackets.
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40°C to +46°C (-40°F to 115°F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	• 20A to 50A breaker inputs: 14 to 4 AWG copper conductors
	60A 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	Up to 3,000 meters (9,842 feet)
INTERNET CONNECTION OPTIONS	
Integrated Wi-Fi	IEEE 802.11b/g/n
Cellular	CELLMODEM-M1-06-SP-05, CELLMODEM-M1-06-AT-05 (4G based LTE-M1 cellular modem). Note that an Mobile Connect
Eth	cellular modem is required for all Enphase Energy System installations.
Ethernet	Optional, IEEE 802.3, Cat5E (or Cat6) UTP Ethernet cable (not included)
COMPLIANCE	CA Dula 24 (III 1744 CA)
Compliance, IQ Combiner	CA Rule 21 (UL 1741-SA) IEEE 1547:2018 - UL 1741-SB, 3 rd Ed. (X2-IQ-AM1-240-4 and X2-IQ-AM1-240-4C)
	CAN/CSA C22.2 No. 107.1, Title 47 CFR, Part 15, Class B, ICES 003
	Production metering: ANSI C12.20 accuracy class 0.5 (PV production)
Operation of 10 Option	Consumption metering: accuracy class 2.5
Compliance, IQ Gateway	UL 60601-1/CANCSA 22.2 No. 61010-1

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IQ-C-4-4C-DS-0103-EN-US-12-29-2022



5709 GARDENDALE DR. HOUSTON TX 77092

REVISIONS		
DESCRIPTION	DATE	REV

Signature with Seal

PROJECT NAME & ADDRESS

SARAH BENNETT
RESIDENCE

12 NORTHEAST HARDAGE
CIRCLE
S SUMMIT, MISSOURI 64086,
USA

DATE: 12/20/2024

DESIGNER DETAILS:

ESS

SHEET NAME EQUIPMENT

SPECIFICATION
SHEET SIZE
ANSI B
11" X 17"

RELEASE FOR CONSTRUCTION
MER
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

FLASH LOC



FLASH LOC INSTALLATION GUIDE



5709 GARDENDALE DR.

HOUSTON TX 77092

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SHEET NAME EQUIPMENT **SPECIFICATION**

> **ANSIB** 11" X 17"

EASE FOR CONSTRU DEVELOPMENT SERV

FLASHLOC is the ultimate attachment for composition shingle and rolled comp roofs. The all-in-one mount installs fast — no kneeling on hot roofs to install flashing, no prying or cutting shingles, no pulling nails. Simply drive the lag bolt and inject sealant into the base. **FLASH**LOC's patented TRIPLE SEAL technology preserves the roof and protects the penetration with a permanent pressure seal. Kitted with lag bolts, sealant, and hardware for maximum convenience. Don't just divert water, **LOC** it out!





PROTECT THE ROOF

Install a high-strength waterproof attachment without lifting, prying or damaging shingles.



LOC OUT WATER

With an outer shield 1 contour-conforming gasket 2 and pressurized sealant chamber 3 the Triple Seal technology delivers a 100% waterproof connection.



HIGH-SPEED INSTALL

Simply drive lag bolt and inject sealant into the port 4 to create a permanent pressure seal.

Snap chalk lines for attachment rows. On shingle roofs, snap lines 1-3/4" below upslope edge

of shingle course. Locate rafters and mark attachment locations. At each location, drill a 7/32" pilot hole. Clean roof surface of dirt, debris, snow, and ice.

Next, BACKFILL ALL PILOT HOLES WITH SEALANT.

NOTE: Space mounts per racking system install specifications.

STEP 1: SECURE



Place FLASHLOC over pilot hole with lag on down-slope side. Align indicator marks on sides of mount with chalk line. Pass included lag bolt and sealing washer through FLASHLOC into pilot hole. Drive lag bolt until mount is held firmly in place.

NOTE: The EPDM in the sealing washer will expand beyond the edge of the metal washer when proper torque is applied.

STEP 2: SEAL

PRE-INSTALL



Insert tip of UNIRAC provided sealant into port. Inject until sealant exits both vents.

Continue array installation, attaching rails to mounts with provided T-bolts.

NOTE: When FLASHLOC is installed over gap between shingle tabs or vertical joints, fill gap/joint with sealant between mount and upslope edge of shingle course.

USE ONLY UNIRAC APPROVED SEALANTS: Chemlink Duralink 5D, Chemlink M-1, Geocel 4500, or Geocel S-4

FASTER INSTALLATION. 25-YEAR WARRANTY.

FOR QUESTIONS OR CUSTOMER SERVICE VISIT UNIRAC.COM OR CALL (505) 248-2702

FASTER INSTALLATION. 25-YEAR WARRANTY.

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SOLARMOUNT



SOLARMOUNT is the professionals' choice for residential PV mounting applications. Every aspect of the system is designed for an easier, faster installation experience. SOLARMOUNT is a complete solution with revolutionary universal clamps. FLASHKIT PRO, full system UL 2703 certification and 25-year warranty. Not only is **SOLAR**MOUNT easy to install, but best-in-class aesthetics make it the most attractive on any block!









NOW WITH UNIVERSAL MIDCLAMPS Accommodates 30mm-51mm module frames One tool, one-person installs are here!



REVOLUTIONARY NEW ENDCLAMPS Concealed design and included End Caps

THE PROFESSIONALS' CHOICE FOR RESIDENTIAL RACKING

BEST INSTALLATION EXPERIENCE • CURB APPEAL • COMPLETE SOLUTION • UNIRAC SUPPORT

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BETTER DESIGNS

TRUST THE INDUSTRY'S BEST DESIGN TOOL

Start the design process for every project in our U-Builder on-line design tool. It's a great way to save time and money.

BETTER SYSTEMS

ONE SYSTEM - MANY APPLICATIONS

Quickly set modules flush to the roof on steep pitched roofs. Orient a large variety of modules in Portrait or Landscape. Tilt the system up on flat or low slow roofs. Components available in mill, clear, and dark finishes to optimize your design financials

BETTER RESULTS

MAXIMIZE PROFITABILITY ON EVERY JOB

Trust Unirac to help you minimize both system and labor costs from the time the job is quoted to the time your teams get off the roof. Faster installs. Less Waste. More Profits.

BETTER SUPPORT

WORK WITH THE INDUSTRIES MOST EXPERIENCED TEAM

Professional support for professional installers and designers. You have access to our technical support and training groups. Whatever your support needs, we've got you covered. Visit Unirac com/solarmount for more information.



Unirac's technical support team is dedicated to answering

questions & addressing issues in real time. An online

library of documents including engineering reports,

stamped letters and technical data sheets greatly

simplifies your permitting and project planning process.

CONCEALED UNIVERSAL **FNDCLAMPS**



END CAPS INCLUDED WITH EVERY ENDELAMP

UNIVERSAL SELF STANDING MIDCLAMPS



U-BUILDER ONLINE DESIGN TOOL SAVES TIME & MONEY Visit design unirac.com

UNIRAC CUSTOMER SERVICE MEANS THE HIGHEST LEVEL OF PRODUCT SUPPORT





GERTIFIED QUALITY



CERTIFIED QUALITY PROVIDER

Unirac is the only PV mounting vendor with ISO

certifications for 9001-2008, 14001-2004 and OHSAS

18001-2007, which means we deliver the highest standards

for fit_form, and function. These certifications demonstrate





PERMIT DOCUMENTATION

BANKABLE WARRANTY

Don't leave your project to chance, Unirac has the financial strength to back our products and reduce your risk. Have peace of mind knowing you are providing products of exceptional quality. SOLARMOUNT is covered by a 25 year limited product warranty and a 5 year limited finish warranty

ENHANCE YOUR REPUTATION WITH QUALITY RACKING SOLUTIONS BACKED BY ENGINEERING EXCELLENCE AND A SUPERIOR SUPPLY CHAIN FIGURALIZATION FOR QUESTIONS OR CUSTOMER SERVICE VISIT UNIRAC COM OR CALL (505) 248-2702 5709 GARDENDALE DR

HOUSTON TX 77092

REVISIONS			
DESCRIPTION DATE REV			
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Signature with Seal

PROJECT NAME & ADDRES

SARAH BENNETT
RESIDENCE

12 NORTHEAST HARDAGE
CIRCLE
S SUMMIT, MISSOURI 64086,
USA

DATE: 12/20/2024

DESIGNER DETAILS:

SHEET NAME EQUIPMENT **SPECIFICATION**

ANSIB 11" X 17"

SHEET NUMBER LEE'S SUMMIT, MISSO

SOLARMOUNT



SOLARMOUNT defined the standard in solar racking. Features are designed to get installers off the roof faster. Our grounding & bonding process eliminates copper wire and grounding straps to reduce costs. Systems can be configured with standard or light rail to meet your design requirements at the lowest cost possible. The superior aesthetics package provides a streamlined clean edge for enhanced curb appeal, with no special brackets required for installation.









SMALL IS THE NEXT NEW BIG THING ENHANCED DESIGN & LAYOUT TOOLS Light Rail is Fully Compatible with all SM Components



Featuring Google Map Capabilities within U-Builder

FAST INSTALLATION. SUPERIOR AESTHETICS

OPTIMIZED COMPONENTS • VERSATILITY • DESIGN TOOLS • QUALITY PROVIDER

SOLARMOUNT

#UNIRAC

OPTIMIZED COMPONENTS

INTEGRATED BONDING & PRE-ASSEMBLED PARTS

labor time. Our new grounding & bonding process eliminates copper wire and grounding

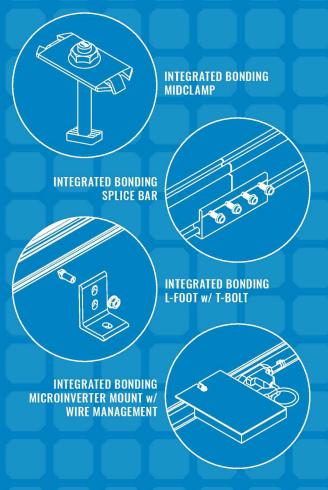
ONE PRODUCT - MANY APPLICATIONS

Quickly set modules flush to the roof or at a desired tilt angle. Change module orientation to portrait or landscape while securing a large variety of framed modules on flat, low slope or steep pitched roofs. Available in mill, clear and dark anodized finishes

tool that streamlines the process of designing a code compliant solar mounting system. Save time by creating a user profile, and recall preferences and projects automatically when you log in. You will enjoy the ability to share projects with customers; there's no need to print results and send to a distributor, just click and share

8

CERTIFIED QUALITY





TECHNICAL SUPPORT

UNIRAC CUSTOMER SERVICE MEANS THE HIGHEST LEVEL OF PRODUCT SUPPORT

BANKABLE



BANKABLE WARRANTY



CERTIFIED OUALITY PROVIDER

PROTECT YOUR REPUTATION WITH QUALITY RACKING SOLUTIONS BACKED BY ENGINEERING EXCELLENCE AND A SUPERIOR SUPPLY CHAIN

5709 GARDENDALE DR **HOUSTON TX 77092**

REVISIONS			
ESCRIPTION	DATE	REV	
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Signature with Sea

PROJECT NAME & ADDRES

OS NORTHEAST HARDAGE CIRCLE S SUMMIT, MISSOURI 64086, USA SARAH BENNETT RESIDENCE

DATE: 12/20/2024

DESIGNER DETAILS

SHEET NAME EQUIPMENT **SPECIFICATION**

ANSIB 11" X 17"

ASE FOR CONSTRU DEVELORMENT SERV

Eaton DG221URB

Catalog Number: DG221URB

Eaton General duty non-fusible safety switch, single-throw, 30 A, 240 V, NEMA 3R, Rainproof, Painted galvanized steel, Two-pole, Two-wire

General specifications

Product Name Catalog Number Eaton general duty non-fusible safety DG221URB

782113120232

UPC

Product Length/Depth Product Height 6.88 in 10.81 in

Product Width **Product Weight**

6.38 in 6 lb

Compliances Warranty

Eaton Selling Policy 25-000, one (1) year NEC 230.62 (C) Compliant Barrier

Certifications

Catalog Notes

from the date of installation of the

Product or eighteen (18) months from the **UL** Listed

date of shipment of the Product,

whichever occurs first.

WARNING! Switch is not approved for service entrance unless a neutral kit is installed.

defaultTaxonomyAttributeLabel

Type

Non-fusible, single-throw

Amperage Rating

30A

Number Of Poles

Two-pole

Product Category

General duty safety switch

Voltage rating

240V

Enclosure

NEMA 3R

Enclosure material

Painted galvanized steel

Fuse configuration

Non-fusible

Number of wires

Resources

Catalogs

Eaton's Volume 2—Commercial Distribution

Multimedia

Double Up on Safety

Switching Devices Flex Center

Specifications and datasheets

Eaton Specification Sheet - DG221URB



Eaton Corporation plc Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

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HOUSTON TX 77092

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