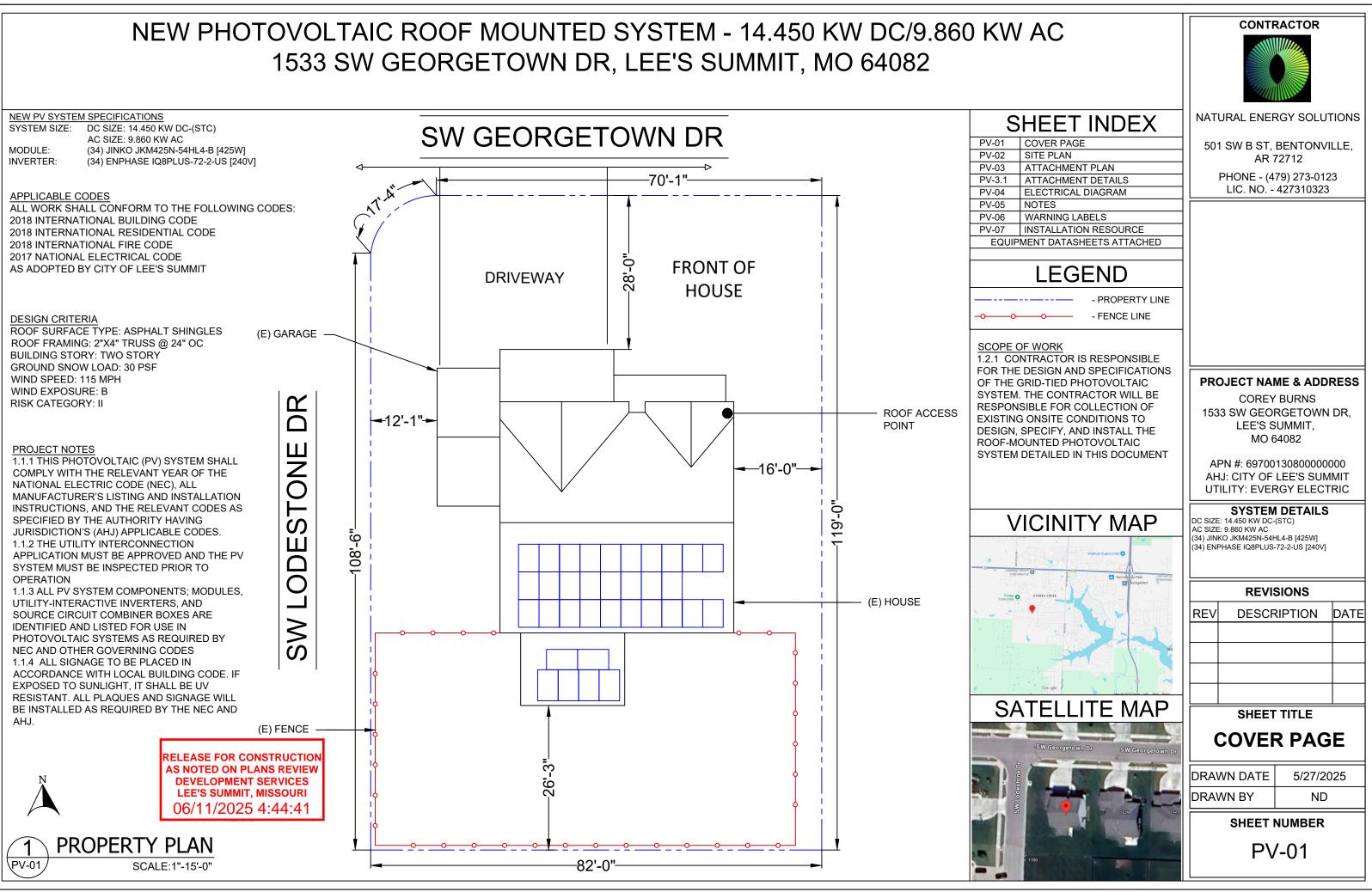
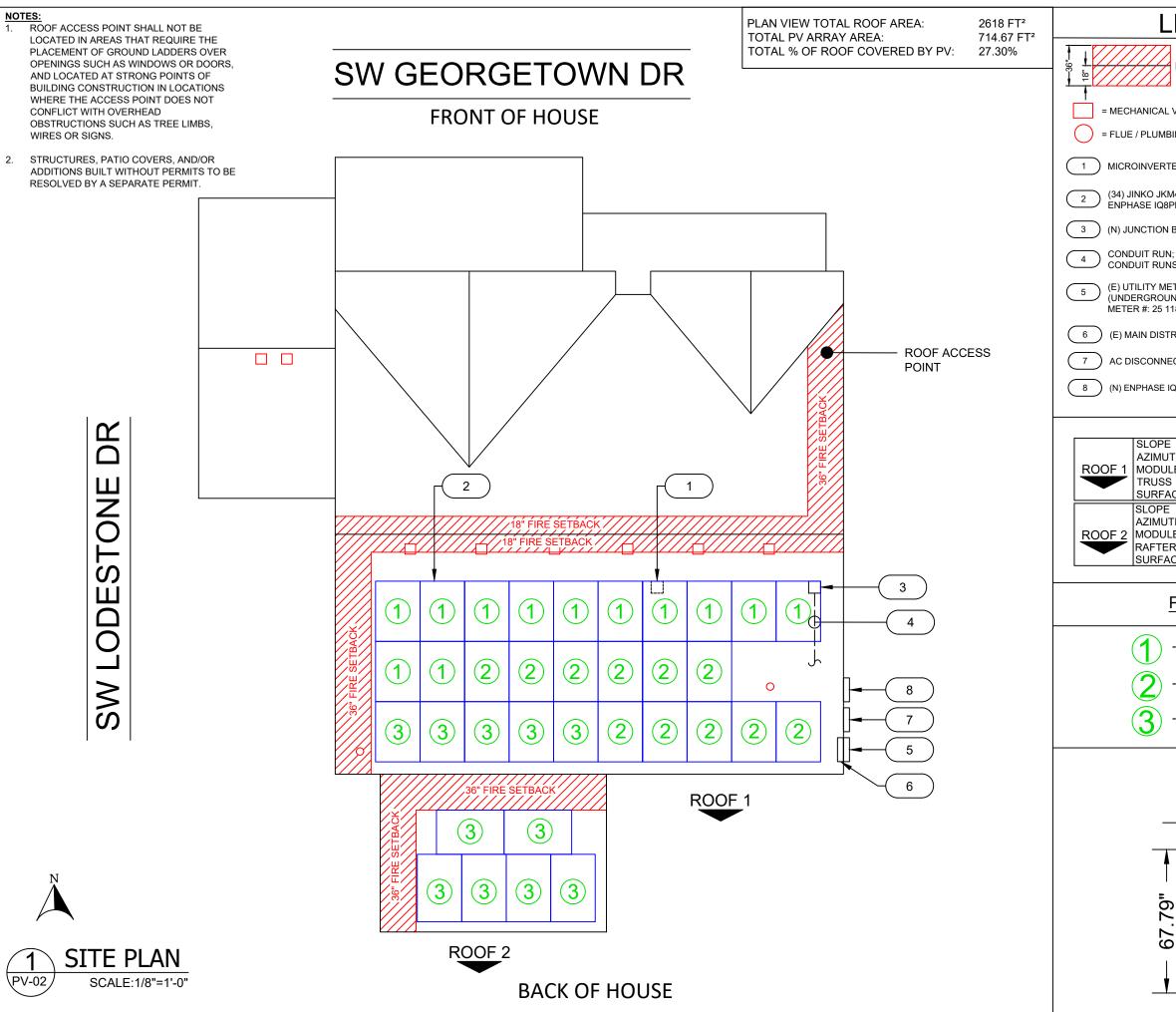
1533 SW GEORGETOWN DR, LEE'S SUMMIT, MO 64082



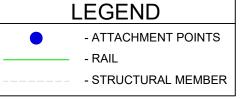


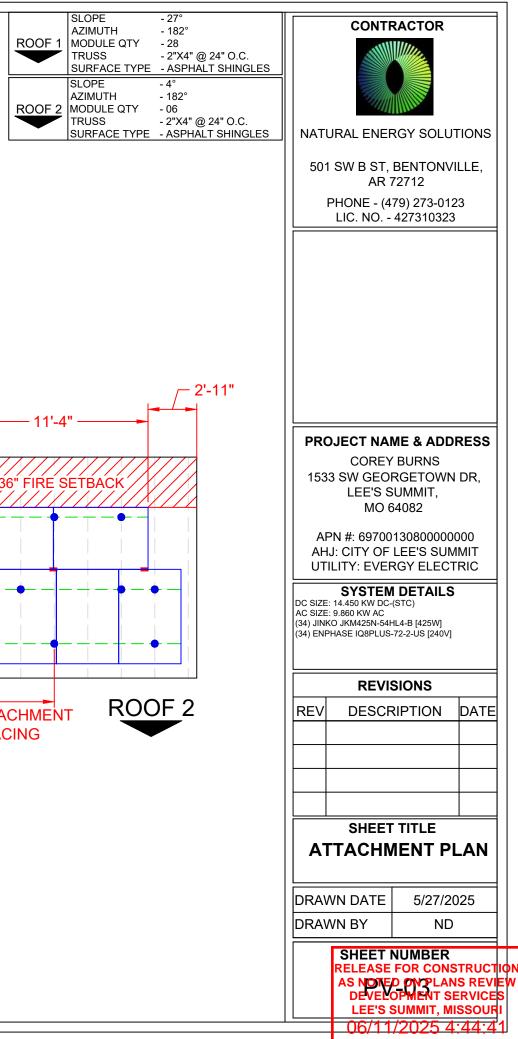
| EGEND | CONTRACTOR | | |
|--|--|--|--|
| FIRE SETBACKS | | | |
| VENT | | | |
| ING VENT | NATURAL ENERGY SOLUTIONS | | |
| ER (1 PER MODULE) | 501 SW B ST, BENTONVILLE, AR 72712 | | |
| 1425N-54HL4-B [425W] MODULES WITH PLUS-72-2-US [240V] UNDER EACH MODULE | PHONE - (479) 273-0123 LIC. NO 427310323 | | |
| BOX (NEMA 3R) | | | |
| SURFACE MOUNTED (ACTUAL S TO BE DETERMINED IN FIELD) | | | |
| TER-MAIN PANEL ND SERVICE) 8 159 | | | |
| RIBUTION PANEL (INSIDE BASEMENT) | | | |
| CT AND PV PRODUCTION METER | | | |
| Q COMBINER BOX 4 | | | |
| - 27° TH - 182° E QTY - 28 - 2"X4" @ 24" O.C. <u>CE TYPE - ASPHALT SHINGLES</u> - 4° TH - 182° E QTY - 06 R - 2"X4" @ 24" O.C. | PROJECT NAME & ADDRESS COREY BURNS 1533 SW GEORGETOWN DR, LEE'S SUMMIT, MO 64082 APN #: 6970013080000000 AHJ: CITY OF LEE'S SUMMIT | | |
| CE TYPE - ASPHALT SHINGLES | UTILITY: EVERGY ELECTRIC | | |
| PV CIRCUITS | SYSTEM DETAILS DC SIZE: 14.450 KW DC-(STC) AC SIZE: 9.860 KW AC (34) JINKO JKM425N-54HL4-B [425W] (34) ENPHASE IQ8PLUS-72-2-US [240V] | | |
| - MODULE STRING | | | |
| - MODULE STRING | REVISIONS | | |
| - MODULE STRING | REV DESCRIPTION DATE | | |
| | | | |
| | | | |
| - 44.65" - | SHEET TITLE | | |
| - | SITE PLAN | | |
| | DRAWN DATE 5/27/2025 | | |
| | DRAWN BY ND | | |
| | SHEET NUMBER RELEASE FOR CONSTRUCTI AS NOTED ON PLANS REVIE DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI | | |
| | 06/11/2025 4:44:41 | | |

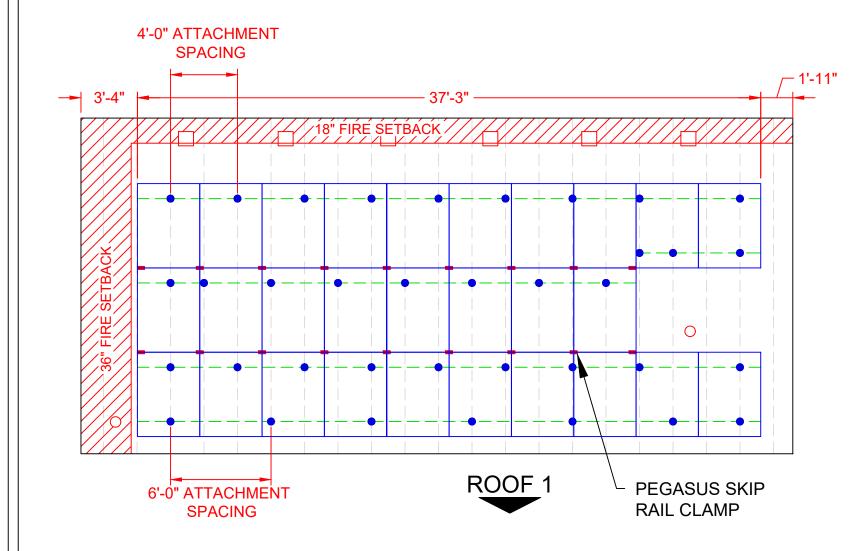
| DISTRIBUTE | ED LOAD CALCULATIONS | NOTE |
|-------------------------------|------------------------------|------|
| MODULE | JINKO JKM425N-54HL4-B [425W] | 1. |
| MODULE WEIGHT | 46.3 LBS | |
| MODULE DIMENSIONS (L" x W") | 67.79" x 44.65" | |
| TOTAL QTY. OF MODULES | 34 | |
| TOTAL WEIGHT OF MODULES | 1574.20 LBS | |
| TYPE OF RACKING | PEGASUS SKIP RAIL | |
| TYPE OF ATTACHMENT | PEGASUS INSTAFLASH | |
| DISTRIBUTED WEIGHT OF RACKING | 0.5 PSF | 2. |
| TOTAL WEIGHT OF ARRAY | 1931.53 LBS | |
| AREA OF MODULE | 21.02 SQFT. | |
| TOTAL ARRAY AREA | 714.67 SQFT. | |
| DISTRIBUTED LOAD | 2.70 PSF | |

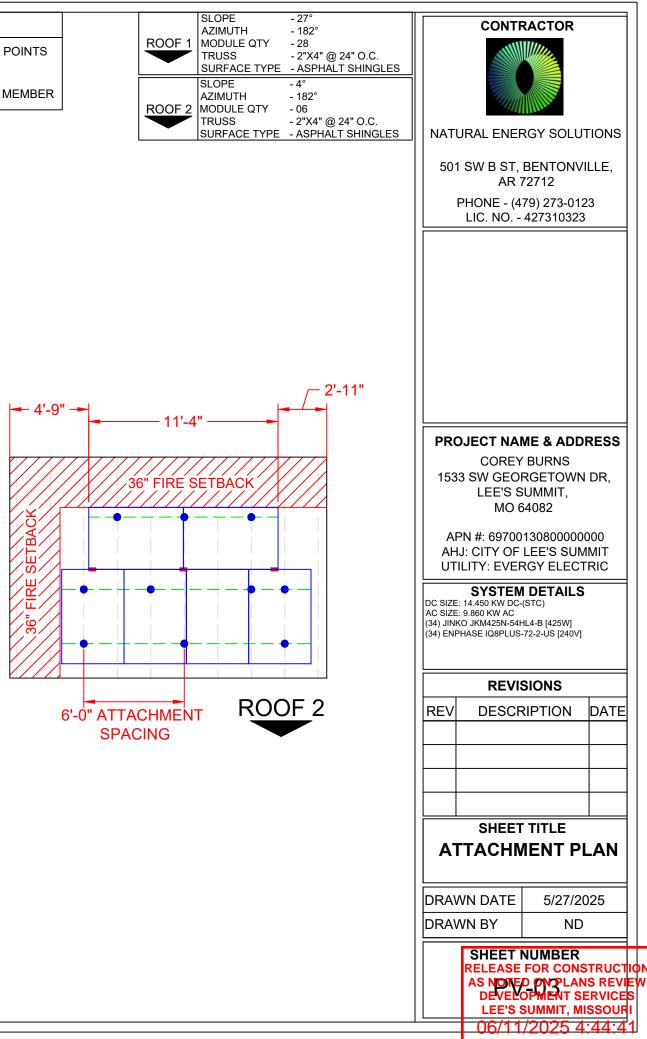
NOTE: CONTRACTOR/INSTALLER TO VERIFY COMPATIBILITY OF ANY BRANDS OR PRODUCTS SUBSTITUTED OR USED AS ALTERNATES WITHIN ANY BRAND-SPECIFIC SYSTEMS. CONTRACTOR SHALL SUPPLY AND PRESENT CERTIFICATES OF COMPATIBILITY TO THE BUILDING OFFICIAL UPON INSPECTION AS NEEDED.

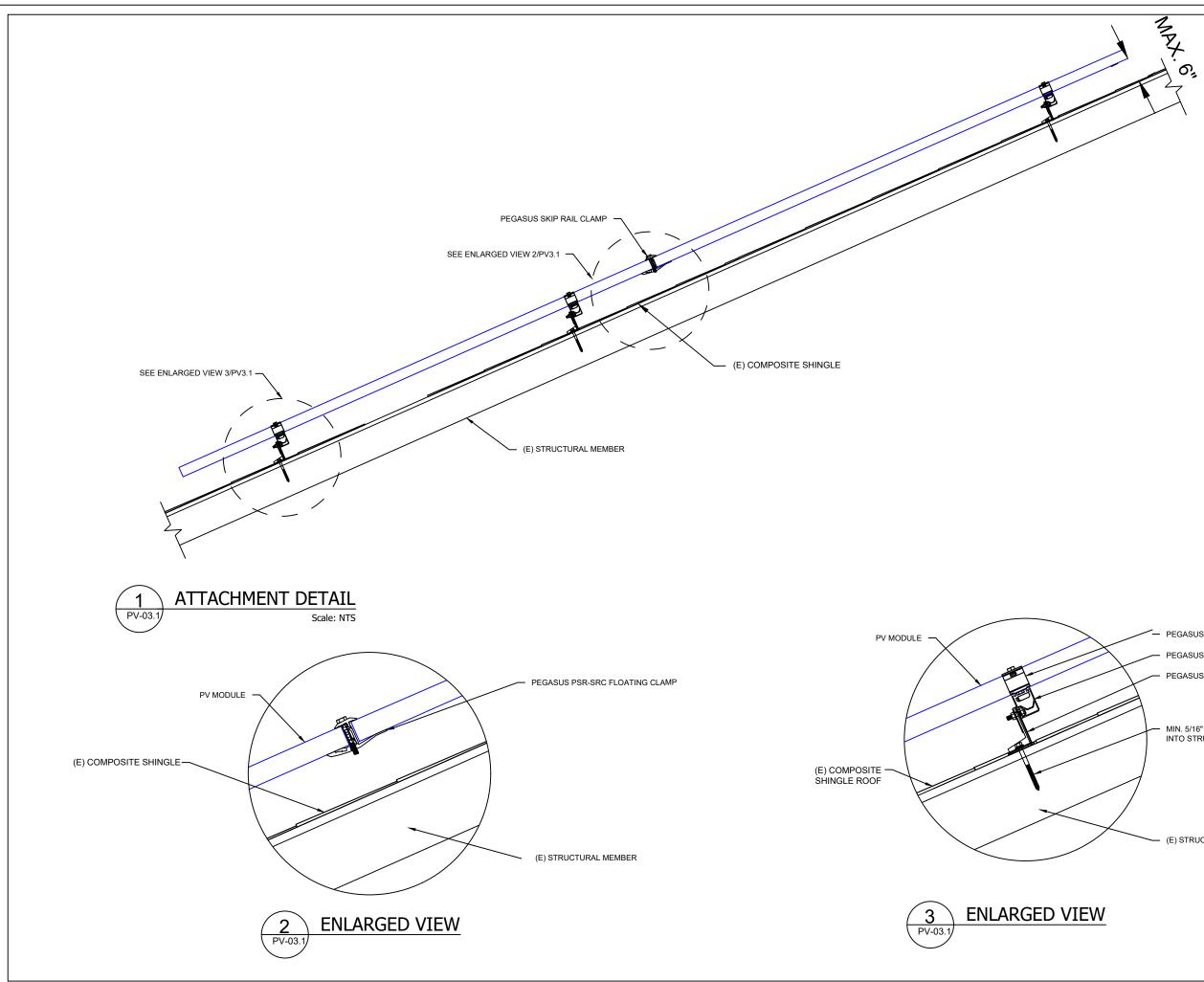
2. REFER TO PV MODULE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RAIL SPACING SPECIFICATIONS











CONTRACTOR



NATURAL ENERGY SOLUTIONS 501 SW B ST, BENTONVILLE, AR 72712 PHONE - (479) 273-0123 LIC. NO. - 427310323 **PROJECT NAME & ADDRESS** COREY BURNS 1533 SW GEORGETOWN DR, LEE'S SUMMIT, MO 64082 APN #: 6970013080000000 AHJ: CITY OF LEE'S SUMMIT UTILITY: EVERGY ELECTRIC SYSTEM DETAILS DC SIZE: 14.450 KW DC-(STC) AC SIZE: 9.860 KW AC (34) JINKO JKM425N-54HL4-B [425W] (34) ENPHASE IQ8PLUS-72-2-US [240V] REVISIONS DATE REV DESCRIPTION SHEET TITLE ATTACHMENT DETAILS DRAWN DATE 5/27/2025 DRAWN BY ND SHEET NUMBER RELEASE FOR CONSTRUCTION AS NOTED ON FLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

06/11/2025 4:44:41

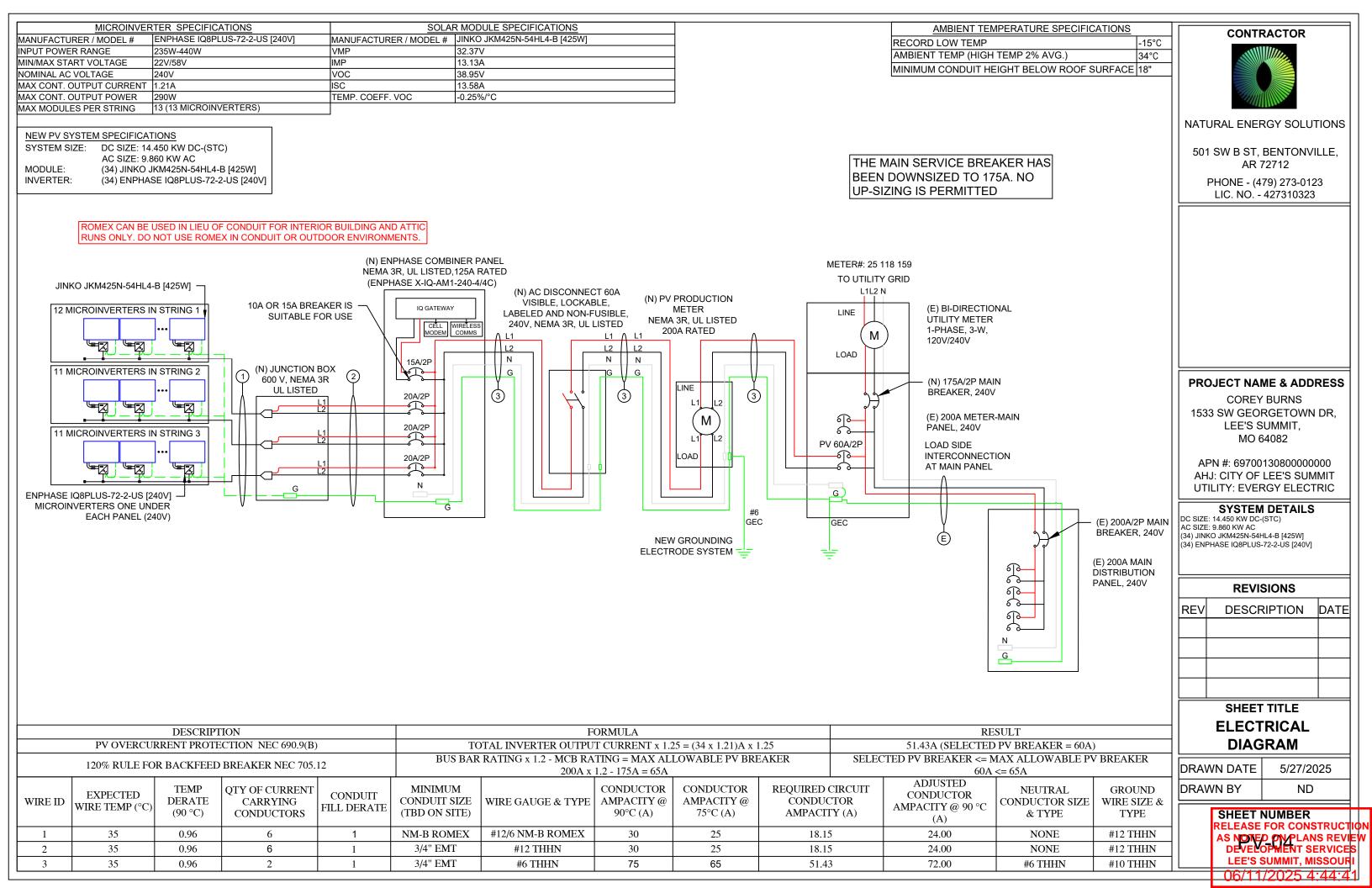
- PEGASUS END/MID CLAMP

PEGASUS RAIL

PEGASUS INSTAFLASH

MIN. 5/16" X 4" SS LAG BOLT INTO STRUCTURAL MEMBER

(E) STRUCTURAL MEMBER



GENERAL NOTES

SITE NOTES

2.1.1 A LADDER WILL BE IN PLACE FOR INSPECTION IN ACCORDANCE WITH OSHA REGULATIONS.

2.1.2 THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.

2.1.3 THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS. 2.1.4 PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED IN ACCORDANCE WITH SECTION NEC 110.26.

2.1.5 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.

EQUIPMENT LOCATIONS

2.2.1 ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS IN ACCORDANCE WITH NEC 110.26.

2.2.2 WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 (A),(C) AND NEC TABLES 310.15 (B)(2)(A) AND 310.15 (B)(3)(C). 2.2.3 JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES IN ACCORDANCE WITH NEC 690.34.

2.2.4 ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT. 2.2.5 ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL IN ACCORDANCE WITH NEC APPLICABLE CODES. 2.2.6 ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

STRUCTURAL NOTES

2.3.1 RACKING SYSTEM & PV ARRAY WILL BE INSTALLED IN ACCORDANCE WITH THE CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH RAILS MUST ALSO EXTEND A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY. IN ACCORDANCE WITH RAIL MANUFACTURER'S INSTALLATION PRACTICES.

2.3.2 JUNCTION BOX WILL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & 2.6.4 ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO SEALED PER LOCAL REQUIREMENTS.

2.3.3 ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND SEALED W/ APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.

2.3.4 ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER OR PROFESSIONAL ENGINEERING GUIDANCE. 2.3.5 WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

WIRING & CONDUIT NOTES

2.4.1 ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.

2.4.2 CONDUCTORS SIZED IN ACCORDANCE WITH THE NEC 2.4.3 AC CONDUCTORS TO BE COLORED OR MARKED PER NEC 2.4.4 LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING PER NEC

GROUNDING NOTES

2.5.1 GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE. AND GROUNDING DEVICES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.

2.5.2 PV EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC 690.43 AND NEC TABLE 250.122.

2.5.3 METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORDANCE WITH NEC 250.134 AND 250.136(A).

2.5.4 EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NEC 690.45 AND INVERTER

MANUFACTURER'S INSTALLATION PRACTICES 2.5.5 EACH MODULE WILL BE GROUNDED AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ. 2.5.6 THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE. 2.5.7 GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER PER NEC 250.119

2.5.8 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 IN ACCORDANCE WITH NEC 250, NEC 690.47 AND THE AHJ.

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

DISCONNECTION AND OVERCURRENT PROTECTION NOTES

2.6.1 DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS).

2.6.2 DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY 2.6.3 PV SYSTEM CIRCUITS INSTALLED ON OR IN HABITABLE BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS IN ACCORDANCE WITH 690.12

NEC 690.8, 690.9, AND 240.

2.6.5 INVERTER ON-GRID BRANCHES SHALL BE CONNECTED TO A SINGLE BREAKER OR GROUPED FUSE DISCONNECT(S) IN ACCORDANCE WITH NEC 110.3(B). 2.6.6 IF REQUIRED BY THE AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION IN ACCORDANCE WITH NEC

690.11 AND UL1699B.

INTERCONNECTION NOTES

2.7.1 LOAD SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH NEC 705.12. 2.7.2 THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS OUTPUT MAY NOT EXCEED 120 PERCENT OF BUSBAR RATING PER NEC 705.12. 2.7.3 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 IN ACCORDANCE WITH NEC 705.12. 2.7.4 AT MULTIPLE ELECTRIC POWER SOURCES OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVERCURRENT PROTECTION DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE MAIN OVERCURRENT PROTECTION DEVICE MAY BE EXCLUDED IN ACCORDANCE WITH NEC 705.12.

2.7.5 FEEDER TAP INTERCONNECTION (LOAD SIDE) IN ACCORDANCE WITH NEC 705.12. 2.7.6 SUPPLY SIDE TAP INTERCONNECTION IN ACCORDANCE WITH TO NEC 705.12 WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42. 2.7.7 BACKFEEDING BREAKER FOR ELECTRIC POWER SOURCES OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING PER NEC 705.12.

CONTRACTOR



| NATURAL ENERGY SOLUTIONS |
|--------------------------|
|--------------------------|

501 SW B ST. BENTONVILLE. AR 72712

> PHONE - (479) 273-0123 LIC. NO. - 427310323

PROJECT NAME & ADDRESS

COREY BURNS 1533 SW GEORGETOWN DR, LEE'S SUMMIT, MO 64082

APN #: 6970013080000000 AHJ: CITY OF LEE'S SUMMIT UTILITY: EVERGY ELECTRIC

SYSTEM DETAILS

DC SIZE: 14.450 KW DC-(STC) AC SIZE: 9.860 KW AC (34) JINKO JKM425N-54HL4-B [425W] (34) ENPHASE IQ8PLUS-72-2-US [240V]

| REV | DESCF | RIPTION | DATE | | | |
|---|----------------------|---------|------|--|--|--|
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| | SHEET TITLE | | | | | |
| | NOTES | | | | | |
| DRA | DRAWN DATE 5/27/2025 | | | | | |
| DRAWN BY ND | | | | | | |
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| SHEET NUMBER RELEASE FOR CONSTRUCT AS NOTED ON PLANS REV DEVELOPMENT SERVICE | | | | | | |

LEE'S SUMMIT. MISSOURI 06/11/2025 4.44.41



ELECTRICAL SHOCK HAZARD

TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION: COMBINER PANEL, AC DISCONNECT, POINT OF INTERCONNECTION PER CODE: NEC 690.13(B)



TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

LABEL LOCATION: COMBINER PANEL(S), MAIN SERVICE DISCONNECT PER CODE: NEC 110.27(C), OSHA 1910.145(f)(7)

WARNING: PHOTOVOLTAIC **POWER SOURCE**

LABEL LOCATION: DC CONDUIT/RACEWAY/CABLE TRAY PER CODE: NEC 690.31(G)(3-4)

PHOTOVOLTAIC SYSTEM AC DISCONNECT RATED AC OUTPUT CURRENT: 41.14 A NOMINAL OPERATING AC VOLTAGE: 240 V

LABEL LOCATION: POINT OF INTERCONNECTION PER CODE: NEC 690.54

PV SYSTEM

DISCONNECT

LABEL LOCATION: AC DISCONNECT PER CODE: NEC 690.13(B)

DO NOT DISCONNECT **UNDER LOAD**

LABEL LOCATION: MAIN SERVICE DISCONNECT PER CODE: NEC 690.15(C) & NEC 690.33(E)(2)

WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION: MAIN SERVICE DISCONNECT PER CODE: NEC 705.12(B)(3-4), NEC 690.59



LABEL LOCATION: POINT OF INTERCONNECTION, COMBINER PANEL PER CODE: NEC 705.12(B)(2)(3)(c)

WARNING POWER SOURCE OUTPUT

CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.

LABEL LOCATION: MAIN SERVICE DISCONNECT, POINT OF INTERCONNECTION PER CODE: 705.12(B)(2)(3)(b)

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

LABEL LOCATION: MAIN SERVICE DISCONNECT, UTILITY METER PER CODE: NEC 690.13(B)

RAPID SHUTDOWN FOR SOLAR PV SYSTEM

LABEL LOCATION: RSD INITIATION DEVICE, AC DISCONNECT PER CODE: NEC 690.56(C)(3)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

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

LABEL LOCATION: MAIN SERVICE DISCONNECT PER CODE: NEC 690.56(C)(1)(a)

A CAUTION

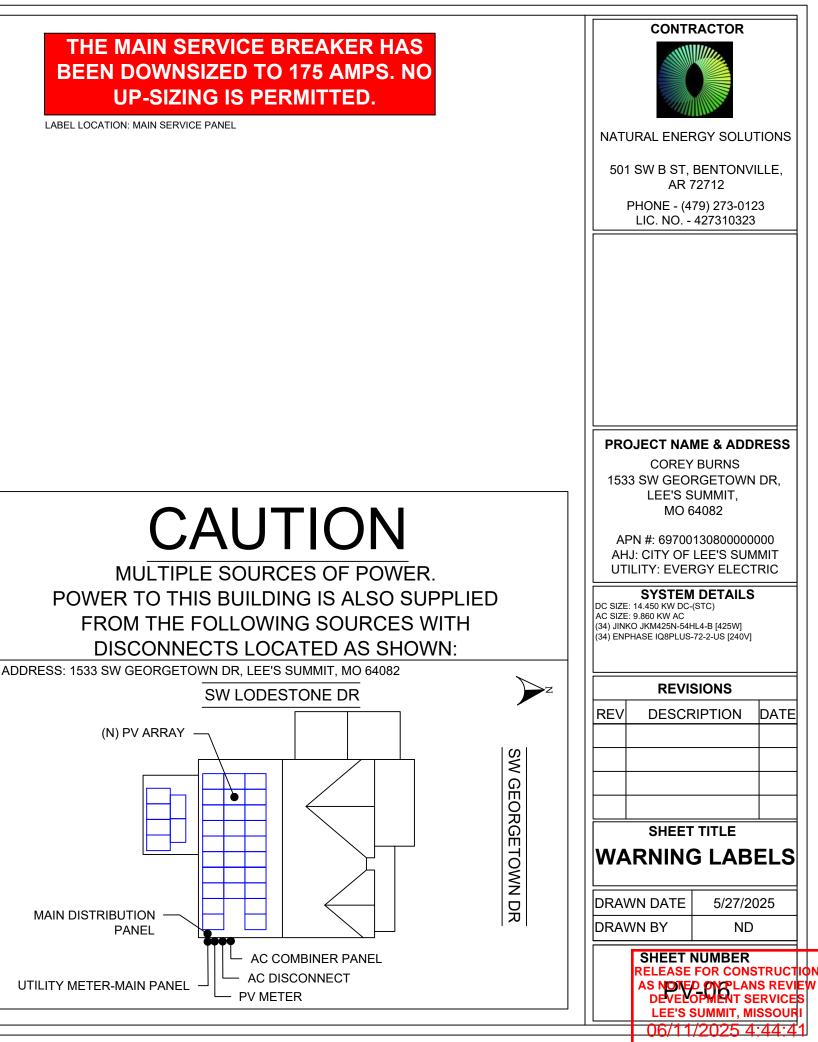
PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

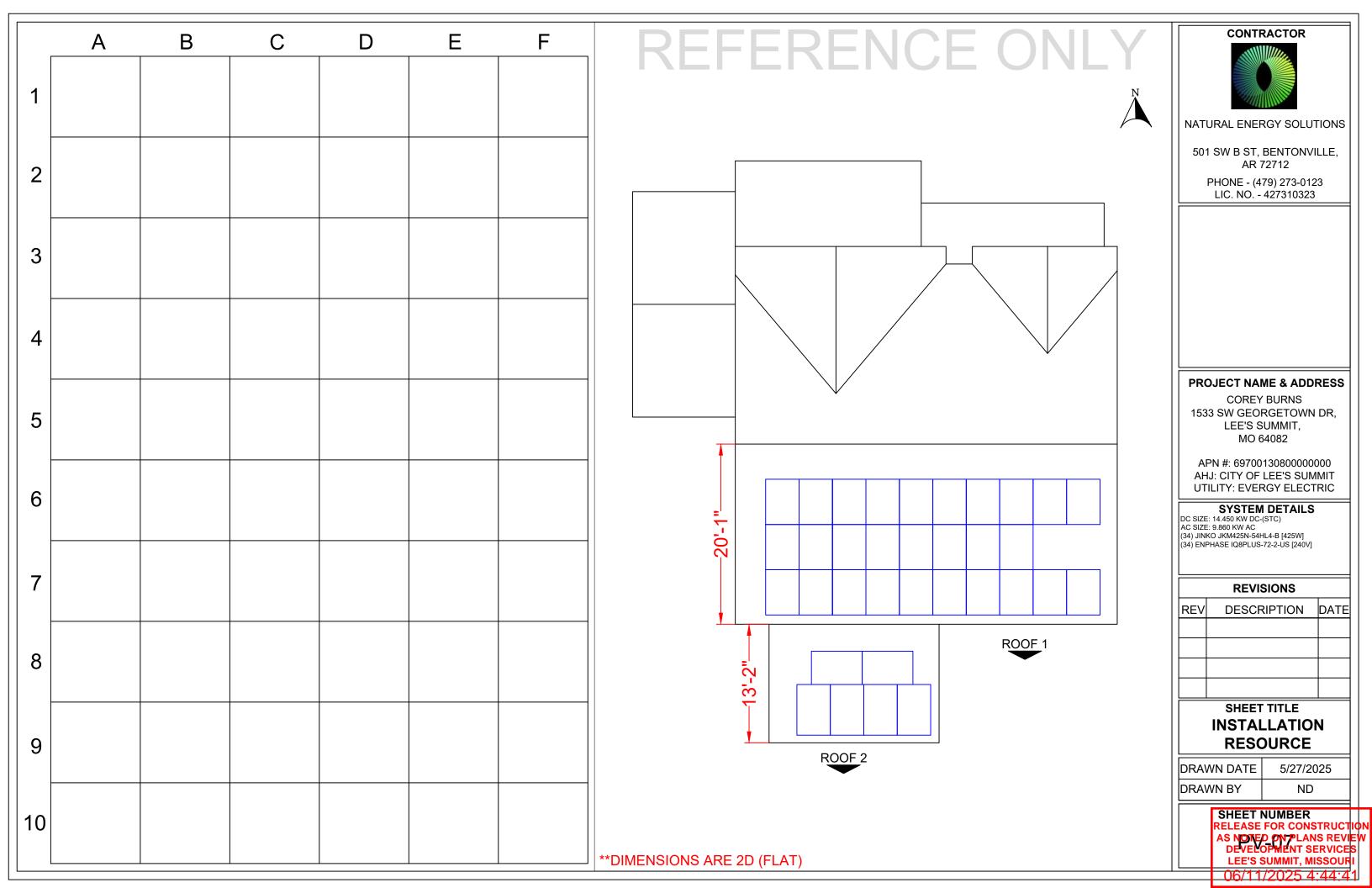
LABEL LOCATION: MAIN SERVICE DISCONNECT PER CODE: NEC 690.13(F), NEC 705.12(B)(3-4), NEC 690.59

PV METER

LABEL LOCATION: PV METER

UP-SIZING IS PERMITTED.







THE MOST DEPENDABLE SOLAR PRODUCT

EAGLE® 54 G6R 420-440 WATT • N-TYPE TOPCON

Positive power tolerance of $0 \sim +3\%$

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Top performance in the strictest 3rd party labs
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar factories in USA, Vietnam, and Malaysia

KEY FEATURES

Superior Aesthetics

Black backsheet and black frame create ideal look for residential applications.



N-Type Technology

N-type cells with Jinko's in-house TOPCon technology offers better performance and improved reliability.



Thick and Tough

Fire Type 1 rated module engineered with a thick frame, 3.2mm front side glass, and thick backsheet for added durability.

Shade Tolerant

Twin array design allows continued performance even with shading by trees or debris.

Protected Against All Environments

Certified to withstand humidity, heat, rain, marine environments, wind, hailstorms, and packed snow.



Warranty

25-year product and 30-year linear power warranty.

- IS09001:2015 Quality Standards
- IS014001:2015 Environmental Standards
- IEC61215, IEC61730 certified products
- ISO45001: 2018 Occupational Health & Safety Standards
 UL61730 certified products





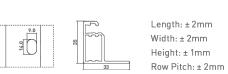
Front

ENGINEERING DRAWINGS

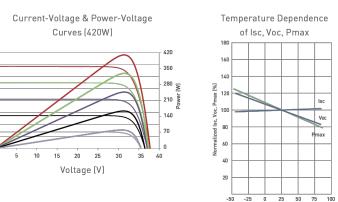
Side

Back

1086mm (42.68")



ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



Cell Temperature (°C)

ELECTRICAL CHARACTERISTICS

| LEEDING ON CHANNEL | | | | | | | | | | |
|-----------------------------|---------|----------|---------|----------|---------|----------|---------|-----------|---------|-----------|
| Module Type | JKM420N | -54HL4-B | JKM425N | -54HL4-B | JKM430N | -54HL4-B | JKM435N | I-54HL4-B | JKM440N | N-54HL4-B |
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 420Wp | 316Wp | 425Wp | 320Wp | 430Wp | 323Wp | 435Wp | 327Wp | 440Wp | 331Wp |
| Maximum Power Voltage (Vmp) | 32.16V | 29.95V | 32.37V | 30.19V | 32.58V | 30.30V | 32.78V | 30.50V | 32.99V | 30.73V |
| Maximum Power Current (Imp) | 13.06A | 10.55A | 13.13A | 10.60A | 13.20A | 10.66A | 13.27A | 10.72A | 13.34A | 10.77A |
| Open-circuit Voltage (Voc) | 38.74V | 36.80V | 38.95V | 37.00V | 39.16V | 37.20V | 39.36V | 37.39V | 39.57V | 37.59V |
| Short-circuit Current (lsc) | 13.51A | 10.91A | 13.58A | 10.96A | 13.65A | 11.02A | 13.72A | 11.08A | 13.80A | 11.14A |
| Module Efficiency STC (%) | 21.5 | 51% | 21. | 76% | 22.0 | 02% | 22. | 28% | 22. | 53% |
| | | | | | | | | | | |

***STC:** ★ Irradiance 1000W/m² **NOCT:** ★ Irradiance 800W/m²

*Power measurement tolerance: ±3%

Cell Temperature 25°C
Ambient Temperature 20°C

The company reserves the final right for explanation on any of the information presented hereby. JKM400-420N-54HL4-B-F4-US

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Solar

MECHANICAL CHARACTERISTICS

| No. of Half Cells | 108 (2 x 54) | | | |
|---|---|--|--|--|
| Dimensions | 1722 × 1134 × 35mm (67.79 × 44.65 × 1.38 inch) | | | |
| Weight | 21.0kg (46.3lbs) | | | |
| Front Glass | 3.2mm, Anti-Reflection Coating High Transmission, Low Iron, Tempered Glass | | | |
| Frame | Anodized Aluminum Alloy | | | |
| Junction Box | IP68 Rated | | | |
| Output Cables | 12 AWG, 1400mm (55.12in) or Customized Length | | | |
| Connector | Staubli MC4 | | | |
| Fire Type | Туре 1 | | | |
| Pressure Rating | 5400Pa (Snow) & 2400Pa (Wind)* | | | |
| *see Supplemental Installation Manual for higher wind pressure rating solutions | | | | |

TEMPERATURE CHARACTERISTICS

| 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°C |

MAXIMUM RATINGS

| Operating Temperature (°C) | -40°C~+85°C |
|----------------------------|-------------|
| Maximum System Voltage | 1000VDC |
| Maximum Series Fuse Rating | 25A |

PACKAGING CONFIGURATION

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 806pcs/40 HQ Container

WARRANTY

25-year product and 30-year linear power warranty 1st year degradation not to exceed 1%, each subsequent year not to exceed 0.4%, minimum power at year 30 is 87.4% or greater.

△ AM = 1.5
△ AM = 1.5

Wind Speed 1m/s



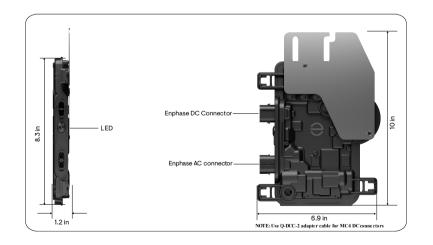
IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters^{1, 2, 3} are the industry's first microgridforming⁴, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently.





| Key specifications | IQ8-60-2-US | IQ8PLUS-72-2-US | | |
|--------------------------------|--------------------------------|--------------------------------|--|--|
| Peak output power | 245 VA | 300 VA | | |
| Nominal grid voltage (L-L) | 240 V, split-phase (L-L), 180° | | | |
| Nominal frequency | 60 Hz | 60 Hz | | |
| CEC weighted efficiency | 97% | 97% | | |
| Maximum input DC voltage | 50 V | 60 V | | |
| MPPT voltage range | 27-37 V | 27-45 V | | |
| Maximum module I _{sc} | 20 A | 20 A | | |
| Ambient temperature range | –40°C to 60°C | -40°C to 60°C (-40°F to 140°F) | | |



¹ IQ8 Series Microinverters can be added to existing IQ7 systems on the same IQ Gateway only in the following grid-tied configurations: Solar Only or Solar + Battery (IQ Battery 3T/10T and IQ Battery 5P) without backup.
² IQ7 Series Microinverters cannot be added to a site with existing IQ8 Series Microinverters on the same gateway.

Mixed system of IQ7 and IQ8 will not support IQ8-specific PCS features and grid-forming capabilities. ³ IQ Microinverters ship with default settings that meet North America's IEEE 1547 interconnection standard requirements. Region-specific adjustments may be requested by an Authority Having Jurisdiction (AHJ) or utility

requirements. Region-specific adjustments may be requested by an Authority Having Jurisdiction (AHJ) or utility representative, according to the IEEE 1547 interconnection standard. Use an IQ Gateway to make these changes during installation.

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 4 Meets UL 1741 only when installed with IQ System Controller 2 or 3. 5 IQ8 and IQ8+ support split-phase, 240 V installations only.

🐼 Simple

- Lightweight and compact with plug-and-play connectors
- Power line communication (PLC)
 between components
- Faster installation with simple twowire cabling

C Reliable

- Produce power even when the grid is down⁴
- More than one million cumulative hours of testing
- Industry-leading limited warranty of up to 25 years
- Class II double-insulated enclosure
- Optimized for the latest highpowered PV modules

X Microgrid-forming

- Compliant with the latest advanced grid support⁵
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB 3rd Ed.)

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S^{SUMMITFINISSOURI} 06/11/2025 4:44:42

| Input data (DC) | Units | IQ8-60-2-US | IQ8PLUS-72-2-US | |
|--|-------|---|--|--|
| Commonly used module pairings ⁶ | W | 235-350 | 235-440 | |
| Module compatibility | _ | To meet compatibility, PV modules must be within maximum input DC voltage and maximum module I _{sc} . Module compatibility can be checked at <u>https://</u> <u>enphase.com/installers/microinverters/calculator</u> . | | |
| MPPT voltage range | V | 27-37 | 27-45 | |
| Operating range | V | 16-48 | 16–58 | |
| Minimum/Maximum start voltage | V | 22/48 | 22/58 | |
| Maximum input DC voltage | V | 50 | 60 | |
| Maximum continuous input DC current | А | 10 | 12 | |
| Maximum input DC short-circuit current | А | 2 | 5 | |
| Maximum module I _{sc} | А | 20 | | |
| Overvoltage class DC port | - | I | I | |
| DC port backfeed current | mA | (|) | |
| PV array configuration | _ | Ungrounded array; no additional DC side requires a maximum 2 | e protection required; AC side protection 0 A per branch circuit. | |

| Output data (AC) | Units | IQ8-60-2-US | IQ8PLUS-72-2-US | |
|---|-------|--------------------------------|-----------------|--|
| Peak output power | VA | 245 | 300 | |
| Maximum continuous output power | VA | 240 | 290 | |
| Nominal grid voltage (L-L) | V | 240, split-pha | ase (L-L), 180° | |
| Minimum and Maximum grid voltage ⁷ | V | 211- | 264 | |
| Maximum continuous output current | А | 1.0 | 1.21 | |
| Nominal frequency | Hz | 6 | 0 | |
| Extended frequency range | Hz | 47- | -68 | |
| AC short-circuit fault current over three cycles | Arms | 2 | 2 | |
| Maximum units per 20 A (L-L) branch circuit ⁸ | _ | 16 | 13 | |
| Total harmonic distortion | % | <5 | | |
| Overvoltage class AC port | - | III | | |
| AC port backfeed current | mA | 30 | | |
| Power factor setting | - | 1. | 0 | |
| Grid-tied power factor (adjustable) | - | 0.85 leading 0.85 lagging | | |
| Peak efficiency | % | 97.7 | | |
| CEC weighted efficiency | % | 9 | 7 | |
| Nighttime power consumption | mW | 23 | 25 | |
| Mechanical data | | IQ8-60-2-US | IQ8PLUS-72-2-US | |
| Ambient temperature range | | -40°C to 60°C (-40°F to 140°F) | | |

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⁶ No enforced DC/AC ratio.
 ⁷ Nominal voltage range can be extended beyond nominal if required by the utility.
 ⁸ Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

| Mechanical data | IQ8-60-2-US | IQ8PLUS-72-2-US | | |
|---|---|---|--|--|
| Relative humidity range | 4% to 100% | 4% to 100% (condensing) | | |
| DC connector type | MC4 | | | |
| Dimensions (H × W × D) | 212 mm (8.3 in) × 175 mm (6.9 in) × 30.2 mm (1.2 in) | | | |
| Weight | 1.08 kg (2.38 lb) | | | |
| Cooling | Natural convection-no fans | | | |
| Approved for wet locations | Ye | es | | |
| Pollution degree | PD3 | | | |
| Enclosure | Class II double-insulated, corrosion-resistant polymeric enclosure | | | |
| Environmental category/UV exposure rating | NEMA Type 6/Outdoor | | | |
| Compliance | IQ8-60-2-US | IQ8PLUS-72-2-US | | |
| Certifications | Part 15 Class B, ICES-0003 Class This product is UL Listed as PV rapid sh NEC 2014, NEC 2017, NEC 2020, and NE Rule 64-218 rapid shutdown of PV syst | EE 1547:2018 (UL 1741-SB 3 rd Ed.), FCC B, CAN/CSA-C22.2 NO. 107.1-01. nutdown equipment and conforms with EC 2023 section 690.12 and C22.1-2018 ems, for AC and DC conductors, when nanufacturer's instructions. | | |



Enphase IQ Combiner 4/4C X-IQ-AM1-240-4 X-IQ-AM1-240-4C





X-IO-AM1-240-4

To learn more about Enphase offerings, visit enphase.com

The Enphase IQ Combiner 4/4C with Enphase

IQ Gateway and integrated LTE-M1 cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure and 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 Enphase 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
- Flexible networking supports Wi-Fi, Ethernet, or cellular
- · Optional AC receptacle available for PLC bridge
- · Provides production metering and consumption monitoring

Simple

- Centered mounting brackets support single stud mounting
- · Supports bottom, back and side conduit entry • Up to four 2-pole branch circuits for 240 VAC
- 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
- UL listed

IQ Combiner 4 (X-IQ-AM1-240-4)

IQ Combiner 4C (X-IQ-AM1-240-4C)

MODEL NUMBER

Enphase IQ Combiner 4/4C

| | the installation area.) Includes a silver sol |
|--|---|
| ACCESSORIES AND REPLACEMENT PARTS | (not included, order separately) |
| Ensemble Communications Kit COMMS-CELLMODEM-M1-06 CELLMODEM-M1-06-SP-05 | Includes COMMS-KIT-01 and CELLMO Ensemble sites 4G based LTE-M1 cellular modem with 4G based LTE-M1 cellular modem with |
| CELLMODEM-M1-06-AT-05 Circuit Breakers BRK-10A-2-240V BRK-15A-22-240V BRK-20A-2P-240V BRK-5A-2P-240V-B BRK-20A-2P-240V-B | - 46 based LTE-MT cellular modern with Supports Eaton BR210, BR215, BR220, I Circuit breaker, 2 pole, 10A, Eaton BR2 Circuit breaker, 2 pole, 15A, Eaton BR2 Circuit breaker, 2 pole, 20A, Eaton BR2 Circuit breaker, 2 pole, 20A, Eaton BR2 |
| EPLC-01 | Power line carrier (communication bride |
| XA-SOLARSHIELD-ES | Replacement solar shield for IQ Combin |
| XA-PLUG-120-3 | Accessory receptacle for Power Line Ca |
| XA-ENV-PCBA-3 | Replacement IQ Gateway printed circuit |
| X-IQ-NA-HD-125A | Hold down kit for Eaton circuit breaker w |
| ELECTRICAL SPECIFICATIONS | |
| Rating | Continuous duty |
| System voltage | 120/240 VAC, 60 Hz |
| Eaton BR series busbar rating | 125 A |
| Max. continuous current rating | 65 A |
| Max. continuous current rating (input from PV/storage) | 64 A |
| Max. fuse/circuit rating (output) | 90 A |
| Branch circuits (solar and/or storage) | Up to four 2-pole Eaton BR series Distril |
| Max. total branch circuit breaker rating (input) | 80A of distributed generation / 95A with |
| Envoy breaker | 10A or 15A rating GE/Siemens/Eaton in |
| Production metering CT | 200 A solid core pre-installed and wired |
| Consumption monitoring CT (CT-200-SPLIT) | A pair of 200 A split core current transfe |
| MECHANICAL DATA | |
| Dimensions (WxHxD) | 37.5 x 49.5 x 16.8 cm (14.75" x 19.5" x 6. |
| 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, |
| Wire sizes | 20 A to 50 A breaker inputs: 14 to 4 AV 60 A breaker branch input: 4 to 1/0 AV Main lug combined output: 10 to 2/0 A Neutral and ground: 14 to 1/0 copper Always follow local code requirements |
| Altitude | To 2000 meters (6,560 feet) |
| INTERNET CONNECTION OPTIONS | |
| Integrated Wi-Fi | 802.11b/g/n |
| Cellular | CELLMODEM-M1-06-SP-05, CELLMODE Mobile Connect cellular modem is require |
| Ethernet | Optional, 802.3, Cat5E (or Cat 6) UTP Et |
| COMPLIANCE | |
| Compliance, IQ Combiner | UL 1741, CAN/CSA C22.2 No. 107.1, 47 Production metering: ANSI C12.20 accu Consumption metering: accuracy class |
| Compliance, IQ Gateway | UL 60601-1/CANCSA 22.2 No. 61010-1 |
| | |



To learn more about Enphase offerings, visit enphase.com

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IQ Combiner 4 with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and consumption monitoring (+/- 2.5%). Includes a silver solar shield to match the IQ Battery system and IQ System Controller 2 and to deflect heat.

IQ Combiner 4C with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and consumption monitoring (+/- 2.5%). Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), a plug-and-play 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.

parately)

and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan for

modem with 5-year Sprint data plan modem with 5-year AT&T data plan

215, BR220, BR230, BR240, BR250, and BR260 circuit breakers.

A, Eaton BR210

A, Eaton BR215 A. Eaton BR220

A, Eaton BR215B with hold down kit support

A, Eaton BR220B with hold down kit support

nication bridge pair), quantity - one pair

for IQ Combiner 4/4C

ower Line Carrier in IQ Combiner 4/4C (required for EPLC-01)

printed circuit board (PCB) for Combiner 4/4C

cuit breaker with screws.

series Distributed Generation (DG) breakers only (not included)

ion / 95A with IQ Gateway breaker included

ens/Eaton included

led and wired to IQ Gateway

urrent transformers

5" x 19.5" x 6.63"). Height is 21.06" (53.5 cm) with mounting brackets.

EMA type 3R, polycarbonate construction

uts: 14 to 4 AWG copper conductors ut: 4 to 1/0 AWG copper conductors ut: 10 to 2/0 AWG copper conductors to 1/0 copper conductors equirements for conductor sizing.

5, CELLMODEM-M1-06-AT-05 (4G based LTE-M1 cellular modem). Note that an Enphase dem is required for all Ensemble installations

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Cat 6) UTP Ethernet cable (not included)

No. 107.1, 47 CFR, Part 15, Class B, ICES 003 I C12.20 accuracy class 0.5 (PV production) curacy class 2.5

Data Sheet **Enphase Q Cable Accessories REGION: Americas**

Enphase **Q** Cable Accessories

The Enphase Q Cable™ and accessories are part of the latest generation Enphase IQ System™. These accessories provide simplicity, reliability, and faster installation times.

Enphase Q Cable • Two-wire, double-insulated Enphase Q Cable

- is 50% lighter than the previous generation Enphase cable
- New cable numbering and plug and play connectors speed up installation and simplify wire management
- Link connectors eliminate cable waste

Field-Wireable Connectors

- · Easily connect Q cables on the roof without complex wiring
- Make connections from any open connector and center feed any section of cable within branch limits
- Available in male and female connector types

Enphase Q Cable Accessories

| CONDUCTOR SPECIFICATIONS | | | | |
|---|--|--|---|---|
| Certification | UL3003 (raw cable), UL 9703 | (cable assemblies), DG | cable | |
| Flame test rating | FT4 | | | |
| Compliance | RoHS, OIL RES I, CE, UV Resi | stant, combined UL for C | anada and United States | |
| Conductor type | THHN/THWN-2 dry/wet | | | |
| Disconnecting means | The AC and DC bulkhead connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690. | | | |
| Q CABLE TYPES / ORDERING OPT | IONS | | | |
| Connectorized Models | Size / Max Nominal Voltage | Connector Spacing | PV Module Orientation | Connector Count per Box |
| Q-12-10-240 | 12 AWG / 277 VAC | 1.3 m (4.2 ft) | Portrait | 240 |
| Q-12-17-240 | 12 AWG / 277 VAC | 2.0 m (6.5 ft) Landscape (60-cell) | | 240 |
| Q-12-20-200 | 12 AWG / 277 VAC | 2.3 m (7.5 ft) | Landscape (72-cell) | 200 |
| ENPHASE Q CABLE ACCESSORIES | 1 | | | |
| Name | Model Number | Description | | |
| Raw Q Cable | Q-12-RAW-300 | 300 meters of 12 AWG | cable with no connectors | |
| Field-wireable connector (male) | Q-CONN-10M | Make connections from | n any open connector | |
| Field-wireable connector (female) | Q-CONN-10F | Make connections from | n any Q Cable open connec | otor |
| Cable Clip | Q-CLIP-100 | Used to fasten cabling | to the racking or to secure | looped cabling |
| Disconnect tool | Q-DISC-10 | Disconnect tool for Q Ca | ble connectors, DC connec | tors, and AC module mount |
| Q Cable sealing caps (female) | Q-SEAL-10 | One needed to cover ea | ach unused connector on t | he cabling |
| Terminator | Q-TERM-10 | Terminator cap for unu | sed cable ends | |
| Enphase EN4 to MC4 adaptor ¹ | ECA-EN4-S22 | Connect PV module us SOLARLOK). 150mm/5 | | micros with EN4 (TE PV4-S |
| Enphase EN4 non-terminated adaptor ¹ | ECA-EN4-FW | For field wiring of UL ce non-terminated cable. | ertified DC connectors. EN 150mm/5.9" | 4 (TE PV4-S SOLARLOK) to |
| Enphase EN4 to MC4 adaptor (long) ¹ | ECA-EN4-S22-L | | or EN4 (TE PV4-S SOLARL dules with short DC cable. | OK) to MC4. Use with split 600mm/23.6″ |
| Replacement DC Adaptor (MC4) | Q-DCC-2 | DC adaptor to MC4 (ma | ax voltage 100 VDC) | |
| Replacement DC Adaptor (UTX) | Q-DCC-5 | DC adaptor to UTX (ma | x voltage 100 VDC) | |

1. Qualified per UL subject 9703.



TERMINATOR Terminator cap for unused cable ends, sold in packs of ten (Q-TERM-10)



DISCONNECT TOOL Plan to use at least one per installation, sold in packs of ten (Q-DISC-10)

To learn more about Enphase offerings, visit enphase.com

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SEALING CAPS

Sealing caps for unused aggregator and cable connections (Q-BA-CAP-10 and Q-SEAL-10)



CABLE CLIP

Used to fasten cabling to the racking or to secure looped cabling, sold in packs of one hundred (Q-CLIP-100)



CERTIFICATE OF COMPLIANCE

| Certificate Number Report Reference Date | 20230825-E341165 SB E341165-20210317 2023-09-27 |
|--|--|
| Issued to: | Enphase Energy Inc. 1420 N. McDowell Blvd. Petaluma, CA 94954-6515 |
| This is to certify that representative samples of | Photovoltaic Grid Support Utility Interactive Inverter with Rapid Shutdown Functionality Models: IQ8-60, IQ8PLUS-72, IQ8M-72, IQ8A-72, IQ8H-208-72, IQ8H-240-72, may be f/b -2, -5, -E or -M, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -&, where "&" designates additional characters. Models IQ8HC-72, IQ8AC-72, IQ8MC-72 may be f/b -2, -5, -E or -M, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -8, where "&" designates additional characters. Model IQ8X-80 may be f/b -2, -5, -E, or -M, may be f/b -ACM, f/b -US, may be f/b -ACM, may be f/b -ACM, f/b -US, may be f/b -ACM, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -NM, may be f/b -RMA, may be f/b -ACM, f/b -US, may be f/b -RMA, may be |
| n n n n n n n n n n n n n n n n n n n | indicated on this Certificate. |
| Standard(s) for Safety: | See Page 2 |
| Additional Information: | See the UL Online Certifications Directory at <u>www.ul.com/database</u> for additional information |

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

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UL LLC

Bruce Mahrenholz, Director North American Certification Program

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CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Date

20230825-E341165 E341165-20210317 2023-09-27

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements. Standards for Safety:

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements, Standards for Safety:

UL 1741, Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources, Edition 3, Issue Date 05/19/2023. Including the requirements in UL 1741 Supplement SA and SB.

IEEE 1547, Interconnection and Interoperability of Distributed Energy Resources (DERs) with Associated Electric Power Systems (EPSs) Interfaces, Issue Date 02/15/2018

IEEE 1547.1, IEEE Standard Conformance Test Procedures for Interconnecting Distributed Energy Resources (DERs) with Electric Power Systems (EPSs) Associated Interfaces, Issue Date 03/05/2020.

CSA C22.2 No. 107.1-16, General Use Power Supplies, Edition 4, Issue Date 06/2016

- x R21: The evaluation to the Standards above provides evidence of compliance to the intent of the existing California Rule 21 Interconnection (references to the past publication of IEEE 1547 standards) and UL1741Table SA1.1 option to use the IEEE 1547.1-2020 and UL1741SB test methods in conjunction with using IEEE 1547-2018 as the SRD under which SA11.2 Normal Ramp Rate is not address. Additional testing was conducted to confirmed compliance to Normal Ramp Rate SA11.2
 -] 14H (SA): The evaluation to the Standards above provides evidence of compliance to HECO Rule 14H, SRD V1.0, Interconnection Application.
- x 14H (SB): The evaluation to the Standards above provides evidence of compliance to HECO Rule 14H, SRD V2.0, Interconnection Application.



SB

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RAIL SYSTEM



Bonding Structural Splice Connect rails instantly, without tools, interference or limitations.

Next-Level Solar Mounting

Clamps won't pinch wires after tightening.

A complete system for hassle-free rooftop installation, from watertight mounts to lifetime wire management.



PEGASUS **Pegasus Rail Pegasus Max Rail** Available in 14' and 7' lengths for easy Maximum-strength design. layout and shipping. Meets specifications for high Open-channel design holds MC4 snow-load and hurricane zones. connectors, PV wire and trunk cables. Black and Mill finish Black and Mill finish Multi-Clamp Hidden End Clamp Fits 30-40mm PV frames, as mid- or Offers premium edge appearance. end-clamp. Preinstalled pull-tab grips rail edge, Twist-locks into position; doesn't pinch allowing easy, one-hand installation. wires in rail Tucks away for reuse. Bonds modules to rail; UL2703 listed as reusable

| MLPE Mount | Cable Grip | | | |
|--------------------------------------|--|--|--|--|
| cures and bonds most micro-inverters | Secures four PV wires or two trunk cables. | | | |
| d optimizers to rail. | Stainless-steel backing provides | | | |

Connectors and wires easily route durable grip. underneath after installation Eliminates sagging wires. UL2703 listed as reusable.

(SP°

Certifications:

- UL 2703, Edition 1 • LTR-AE-001-2012
- ASCE 7-16 PE certified
- Class A fire rating for any slope roof



Quickly calculate the most efficient layout, spans and

70 materials needed to suit your job. Visit the Pegasus 110 Customer Portal. pegasussolar.com/portal

For reference only. Spans above are calculated using ASCE 7-16 for a Gable Roof, Exposure Category B, 7-20deg roof angle, 30ft mean roof height with non-exposed modules. For PE certified span tables, visit www.pegasussolar.com/spans.

Pegasus Solar Inc | 506 West Ohio Avenue, Richmond, CA 94804 | T: 510.210.3797 | www.pegasussolar.com

RAIL SYSTEM



Splice and Max Splice

Installs by hand.

Works over mounts.

Structurally connects and bonds rails automatically; UL2703 listed as reusable.



Dovetail T-bolt

Dovetail shape for extra strength. Uses ½" socket.



Ground Lug

Holds 6 or 8 AWG wire. Mounts on top or side of rail. Assembled on MLPE Mount. UL2703 listed as reusable.



Wire Clip

Hand operable. Holds wires in channel. Won't slip.

LOAD

0

15

30

45

Installs by hand, eliminates row-to-row copper wire. UL2703 listed as reusable only with Pegasus Rail.

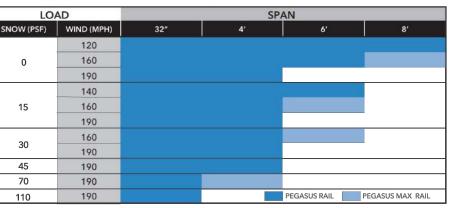
N-S Bonding Jumper

min



End Cap and Max End Cap

Fits flush to PV module and hides raw or angled cuts. Hidden drain quickly clears water from rail.







Factory-installed,

INSTAFLASH[®]

PEGASUS





Before InstaFlash Installed: Sealant is contained above roof surface by a protective cage.



After InstaFlash Installed: Sealant is compressed to fill all holes and voids.

Protective Cage Prevents sealant from getting on hands or roof. Collapses upon lag installation.

Effortless Lifetime Roof Protection

The non-hardening sealant completely fills any missed pilot holes, shingle rips, voids, or other potential water ingress points under the entire footprint of the 4.6" wide base.



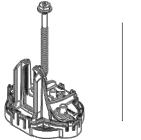
Pegasus Solar Inc | 506 West Ohio Avenue, Richmond, CA 94804 | www.pegasussolar.com

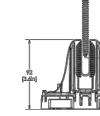




3 Insert the lag screw through the center hole into the pilot hole.







| | PIF-RB0 | PIF-RBDT | PIF-RBSH | PIF-RM0 | PIF-RMDT | P |
|-----------------------------|---|--|--|---|---|--|
| Finish | | Bla | çk | [| сл. | |
| Kit Contents | Black InstaFlash, 5/16" x 4.0" SS Lag | Black InstaFlash, 5/16" x 4.0" SS Lag, Dovetail T-bolt w/ Nut | Black InstaFlash, 5/16" x 4.0" SS Lag, M10 Hex Bolt w/ Nut | Mill Insta- Flash, 5/16" x 4.0" SS Lag | Mill InstaFlash, 5/16" x 4.0" SS Lag, Dovetail T-bolt w/ Nut | |
| Attachment Type | | Rafter Attached | | | | SCAN FOR |
| Roof Type | Sloped Roof: C | Sloped Roof: Composition Shingle, Rolled Asphalt Flat roof: Modified Bitumen Roof, Built-Up Roof | | | | INSTALLATION VIDEO |
| Sealant Application | | Factory Installed | | | | |
| Installation Temperature | | | 0°F to 170° F | | | 12 0 10 12 0 10 12 0 10 12 0 10 12 0 10 10 10 10 10 10 10 10 10 10 10 10 1 |
| Cure Time | | Instantly Waterproof; Non-hardening | | | | |
| Service Temperature | | -40°F to 195° F | | | 195. T.E. | |
| Certifications | IBC, ASCE/SEI 7-16, FL Cert of Approval FL41396, TAS 100(A), UL2703 | | | | | |
| Install Application | Most Railed Systems, Pegasus Tilt Leg Kit | | | | | |
| Kit Quantity | | | 24 | | | SCAN FOR FREE TRIAL |
| Boxes per Pallet | | | 36 | | | FREE IRIAL |

INSTAFLASH



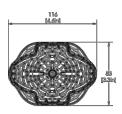
Place the InstaFlash over the pilot hole. Note: the direction of the InstaFlash Down arrows should point down the roof.



4 Drive the lag until the InstaFlash is fully seated to the roof.











SK'PRAIL

Skip Rows!

Eliminate entire rows of mounts, rails and clamps by adding just one SKU!

SkipRail Clamp

Structurally connects and bonds modules row-to-row Eliminate leveling rails: aligns module rows to be in-plane

Same Rail System

Simply layout system as normal, just "skip" rows 3,5,7,etc. of attachments, rails, and clamps

A Revolution in Solar Installations

Lower your costs and provide your crews a faster system by eliminating entire rows of mounts, rails and clamps with just one SKU.



Dramatically Lower Costs

25% fewer rails and clamps 15% fewer roof penetrations 3500 lbs less per MW to ship, warehouse, pack, and load



Recruit the Best Crews

Less work = happier crews 300 lbs less per week to haul Faster install Auto-levels modules



Easy to Implement

Minimal to no training Same layout as standard rail Same open-channel wire management

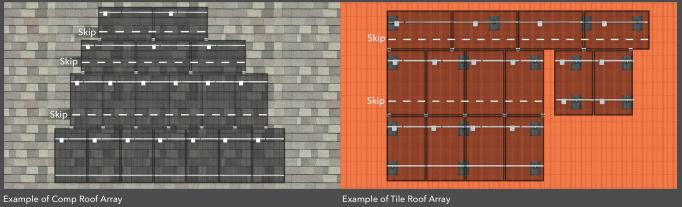


Universal to Any Roof

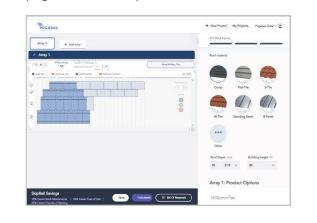
Comp, Tile, Metal, other. Low slow, steep slopes Easily work around roof obstructions Mixed portrait / landscape

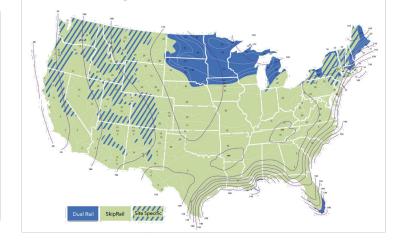
Pegasus Solar Inc | 506 West Ohio Avenue, Richmond, CA 94804 | www.pegasussolar.com

PEGASUS



Free Design Tool: pegasussolar.com/portal





| Specifications | | S | | |
|--|------------------------|--------|--|--|
| SKU | PSR-SRC | | | |
| Туре | Floating Clamp | | | |
| Finish | | | | |
| PV module frames | | 3 | | |
| Certifications | , | ASCE 7 | | |
| Applicable Roof Types | | | | |
| Compatible Rail Systems | | Pe | | |
| Kit Contents | Pegasus SkipRail Clamp | | | |
| Kit Quantity | 20 | | | |
| Patents pending. All rights reserved. ©2023 Pegasus Solar Inc. | | | | |

SK'PRAIL

SkipRail SAVINGS | 18% fewer attachments • 32% fewer feet of rails 22% fewer pounds to ship & warehouse SkipRail SAVINGS | 21% fewer attachments • 30% fewer feet of rails 21% fewer pounds to ship & warehouse

Where SkipRail Works

SkipRail Kits

PSR-SRCK

Extra support with Kickstand

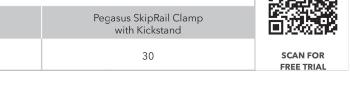
Black

30, 32, 35, 40mm

7-16, IBC, CBC, UL2703

Any

egasus Rail System



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SCAN FOR VIDEO



06/11/2025 4:44:42

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VIEW ES JRI