BLAISE, JEANS NEW GRID-INTERACTIVE PHOTOVOLTAIC SYSTEM DC SYSTEM SIZE (11.070 KW)

GENERAL NOTES

SCOPE OF WORK

1. THE PROJECT IS NEW PHOTOVOLTAIC SYSTEM CONSISTING OF SOLAR ARRAY(S) AND ASSOCIATED POWER CONDITIONING EQUIPMENT.

2. ALL CONSTRUCTION SHALL COMPLY WITH THE ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE AND ELECTRIC CODE AS SPECIFIED IN THE PROJECT SPECIFIC NOTES.

3. IT SHALL ALSO COMPLY WITH ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL ELECTRICAL UTILITY CODES, RULES AND REGULATIONS.

4. THE SYSTEM WILL BE INTERCONNECTED TO THE ELECTRICAL UTILITY GRID IN ACCORDANCE WITH THE REQUIREMENTS OF THE ADOPTED ELECTRIC AND THE ELECTRICAL UTILITY COMPANY.

5. THE CONTRACTOR SHALL PROVIDE LABOR FOR CONSTRUCTION OF THE ARRAY AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT. THE CONTRACTOR WILL PROVIDE COMPETENT SUPERVISION FOR THE WORK TO BE ACCOMPLISHED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY OWNER AS REQUESTED.

6. THERE WILL BE NO SUBMISSION FOR ANY EQUIPMENT WITH THE VENDOR PART NUMBER ON THE DRAWING WITHOUT WRITTEN APPROVAL OF THE PROFESSIONAL ENGINEER. COMMON ITEMS SUCH AS CONDUITS, WIRE, FITTINGS, ETC. ARE NOT SPECIFIED BY VENDOR BUT THE SIZES CANNOT BE REDUCED.

7. THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH THE GENERALLY ACCEPTED CONSTRUCTION PRACTICES CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE SAFETY OF ALL PERSON AND PROPERTY, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS.

8. CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE DESIGN PROFESSIONAL FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PERSONNEL.

9. CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRE TO REPAIR ANY DAMAGE DONE TO BUILDINGS, GROUNDS OR UTILITIES AT NO ADDITIONAL COST TO THE CUSTOMER. DEFECTIVE MATERIAL OR WORKMANSHIP WILL NOT BE ALLOWED ON THIS PROJECT.RESONABLE HOUSEKEEPING AND CLEAN UP SHALL BE CONDUCTED BOTH DURING THE EXECUTION OF AND AT THE CONCLUSION OF THE PROJECT.

GENERAL

1. THE ACTUAL SYSTEM EQUIPMENT SPECIFICATIONS FOR THE PHOTOVOLTAIC SYSTEM ARE INCLUDED IN THE PV SYSTEM SPECIFICATION ON THE TITLE PAGE AND THROUGHOUT THE DRAWING AS NECESSARY FOR CLARITY.IN ADDITION THE ACTUAL VENDOR SPECIFICATION DATA SHEETS WILL BE INCLUDED AS PART OF THE PERMIT SUBMITTAL.

2. ONLY NEW MATERIAL WILL BE INSTALLED AS PART OF THE PROJECT. ALL NEW INSTALLED EQUIPMENT WILL BE APPROPRIATELY LISTED AND NEMA RATED. ALL NEW EQUIPMENT SHALL HAVE PERMANENT PLASTIC ENGRAVED IDENTIFICATION TAGS INSTALLED.

3. ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF NEW RACEWAYS AND EQUIPMENT SHALL BE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL WORK SHALL BE PERFORMED BY TRADESMAN EXPERIENCED IN WORK REQUIRED. ALL FINISHES SHALL MATCH THE EXISTING ADJACENT FINISHES. OPENING IN FIRE RATED WALLS WILL BE PATCHED IN A MANNER MAINTAINING THE ORIGINAL FIRE AND SMOKE RATING.

4. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CANNOT SHOW EVERY CONNECTION, JUNCTION BOX, WIRE,CONDUIT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND

5. CONTRACTOR SHALL COORDINATE ALL POWER OUTAGES WITH THE

6. PANEL DESIGNATIONS SHOWN ON THESE DRAWINGS ARE GIVEN FOR

CLARIFICATION OF THE CIRCUITING ONLY AND MAY NOT CORRESPOND TO THE DESIGNATIONS FOUND IN THE FIELD.

7. ELECTRICAL TESTING SHALL BE IN COMPLIANCE WITH NFPA 70E

CONDUIT AND WIRE

1. ALL EXISTING CONDUIT RUNS ARE NOT SHOWN. CONTRACTOR SHALL VERIFY EXISTING CONDUIT LOCATIONS IN FIELD.

2. ALL CONDUCTORS SHALL BE INSTALLED IN A RACEWAY AS SPECIFIED IN THE DRAWINGS. THE EXCEPTION IS PV SOURCE CIRCUIT CONDUCTORS MADE OF PV WIRE CABLE. THESE CONDUCTORS MAY BE EXPOSED WITHIN THE PV ARRAY.

3. INDOOR EMT FITTINGS MAY BE COMPRESSION TYPE OR STEEL SET SCREW TYPE. OUTDOOR EMT FITTINGS MUST BE COMPRESSION RAINTIGHT TYPE. 4. A PULL ROPE SHALL BE INSTALLED IN ALL EMPTY CONDUITS.

5. CONDUCTORS MATERIAL, EITHER COPPER OR ALUMINUM IN

SPECIFIED IN THE DRAWINGS. CONDUCTOR INSULATION TYPE SHALL BE THWN - 2 UNLESS OTHERWISE NOTED.

EQUIPMENT

1. ALL ELECTRICAL COMPONENTS INSTALLED OUTDOORS, EXPOSED TO WEATHER OR IN DAMP LOCATIONS SHALL BE RATED FOR NEMA 3R OR GREATER. INSTALLATION OF THESE COMPONENTS MUST COMPLY WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

2. ALL RACEWAYS, CABINETS, BOXES, FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN AN APPROVED MANNER.

3. AT THE COMPLETION OF THE PROJECT NEATLY TYPED ACCURATE PANEL BOARD DIRECTORIES INDICATING ALL BRANCH CIRCUITS AND SPARES WILL BE PROVIDED. ALL SPARES SHALL BE LEFT IN THE OFF POSITION.

4. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE WITH COVER INTERLOCK AND HANDLE LOCK OFF PROVISIONS. SWITCHES SHALL BE MANUFACTURED BY A COMPANY CONSISTENT WITH OTHER INSTALLED EQUIPMENT WHENEVER POSSIBLE. PART NUMBERS, RATING AND FUSING SHALL BE AS SHOWN ON THE DRAWINGS.

5. CONTRACTOR SHALL ENSURE ALL CEC AND MAINTENANCE CLEARANCE REQUIREMENTS ARE MET FOR NEW EQUIPMENT AND MAINTAINED FOR EXISTING EQUIPMENT.

6. CONTRACTOR SHALL FIELD VERIFY EQUIPMENT CLEARANCE AND PLACEMENTS WHILE COORDINATING LOCATORS WITH OTHER TRADES, CONSTRUCTION MANAGERS, AND SITE SUPERVISORS PRIOR TO PURCHASING AND INSTALLING EQUIPMENT.

7. EVERY STRUCTURE AND PORTION THEREOF, INCLUDING NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7, EXCLUDING CHAPTER 14 AND APPENDIX 11A. THE SEISMIC DESIGN CATEGORY FOR A STRUCTURE IS PERMITTED TO BE DETERMINED IN ACCORDANCE WITH SECTION 1613 OR ASCE 7.

8. ALL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL

LIGHTING AND RECEPTACLE OUTLETS, APPLIANCE AND COOLING, HEATING AN D VENTILATING EQUIPMENT, SHALL BE LOCATED

NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE JUNCTION OR DEVICE BOX NOR LESS THAN 15 INCHES MEASURED TO THE BOTTOM OF THE JUNCTION OR DEVICE BOX ABOVE THE

9. ALL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 - AMPERES OR

LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE

RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED TO THE BOTTOM OF THE

RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING ABOVE FINISHED FLOOR

GROUNDING

1. THE GROUNDING SYSTEM SHALL MEET THE REQUIREMENTS OF THE NEC AND THE LOCAL ADOPTED CODE. ALL ELECTRICAL EQUIPMENT AND RACEWAYS SHALL BE PROPERLY GROUNDED.

2. AN INSULATED EQUIPMENT GROUNDING CONDUCTOR, IN ACCORDANCE WITH NEC CODE, SHALL BE PROVIDED IN ALL CONDUITS WITH CURRENT CARRYING CONDUCTORS. ALL LUGS AND CONNECTORS SHALL BE RATED FOR THE CONDUCTOR MATERIAL AND THE CONDITIONS OF USE.

3. THE GROUNDING RESISTIVITY WILL BE TESTED AFTER INSTALLATION TO CONFIRM 5 OHM OR LESS RESISTANCE FROM RACKING TO GROUND. IF GROUND RESISTANCE IS GREATER THAN 5 OHMS ADDITIONAL GROUNDING WILL BE INSTALLED UNTIL RESISTANCE IS LESS THAN 5 OHMS.

WIRING DEVICES

1. RECEPTACLES SHALL BE AS DESIGNED ON THE DRAWINGS AND SHOULD BE A BRAND CONSISTENT WITH OTHERS IN THE VICINITY WHENEVER POSSIBLE.

2. ALL WIRING DEVICES SHALL BE PROVIDED WITH APPROPRIATE COVER-PLATES. ANY EMPTY BOXES SHALL HAVE BLANK

COVER PLATES. COVER-PLATES SHALL BE LEXAN, PLASTIC OR STAINLESS STEEL IN FINISHED AREA. GALVANIZED COVER-PLATES MAY BE USED IN EQUIPMENT ROOMS.

LABELING AND PHASING

1. FOR LABELING USE NUMBERED UV RATED LABELS TO INDICATE STRING NUMBER.

2. AS A SUBSTITUTE FOR LABELS YELLOW TAPE MAY BE USED FOR PHASING

3. EACH METHOD DESCRIBED ABOVE WILL NEED TO BE PERFORMED ON BOTH POSITIVE AND NEGATIVE AT POINTS WHERE CONDUCTORS ARE TERMINATED

SYSTEM DETAILS

| DESCRIPTION | NEW GRID-INTERACTIVE PHOTOVOLTAIC SYSTEM WITH NO BATTERY STORAGE |
|----------------------|---|
| DC RATING OF SYSTEM | SYSTEM SIZE :11.070KW DC STC |
| AC RATING OF SYSTEM | 7.83 KW |
| MAX. AC OUT. CURRENT | 40.83 A |
| NO. OF MODULES | (27) JKM410M-72HL-V G2 (410W) JINKO SOLAR |
| NO. OF INVERTERS | (27) ENPHASE IQ7PLUS-72-2-US MICROINVERTERS |
| POINT OF CONNECTION | BACKFEED BREAKER |
| ARRAY STRINGING | (3) BRANCHES OF 09 MODULES |

SITE DETAILS

| ASHRAE EXTREME LOW | 0°C |
|------------------------|---------------------|
| ASHRAE 2% HIGH | 33°C |
| GROUND SNOW LOAD | 0 PSF |
| WIND SPEED | 160 MPH (ASCE 7-16) |
| RISK CATEGORY | II |
| WIND EXPOSURE CATEGORY | В |

GOVERNING CODES

FLORIDA RESIDENTIAL CODE, 7TH EDITION 2020 (FRC)

FLORIDA BUILDING CODE, 7TH EDITION 2020 (FBC)

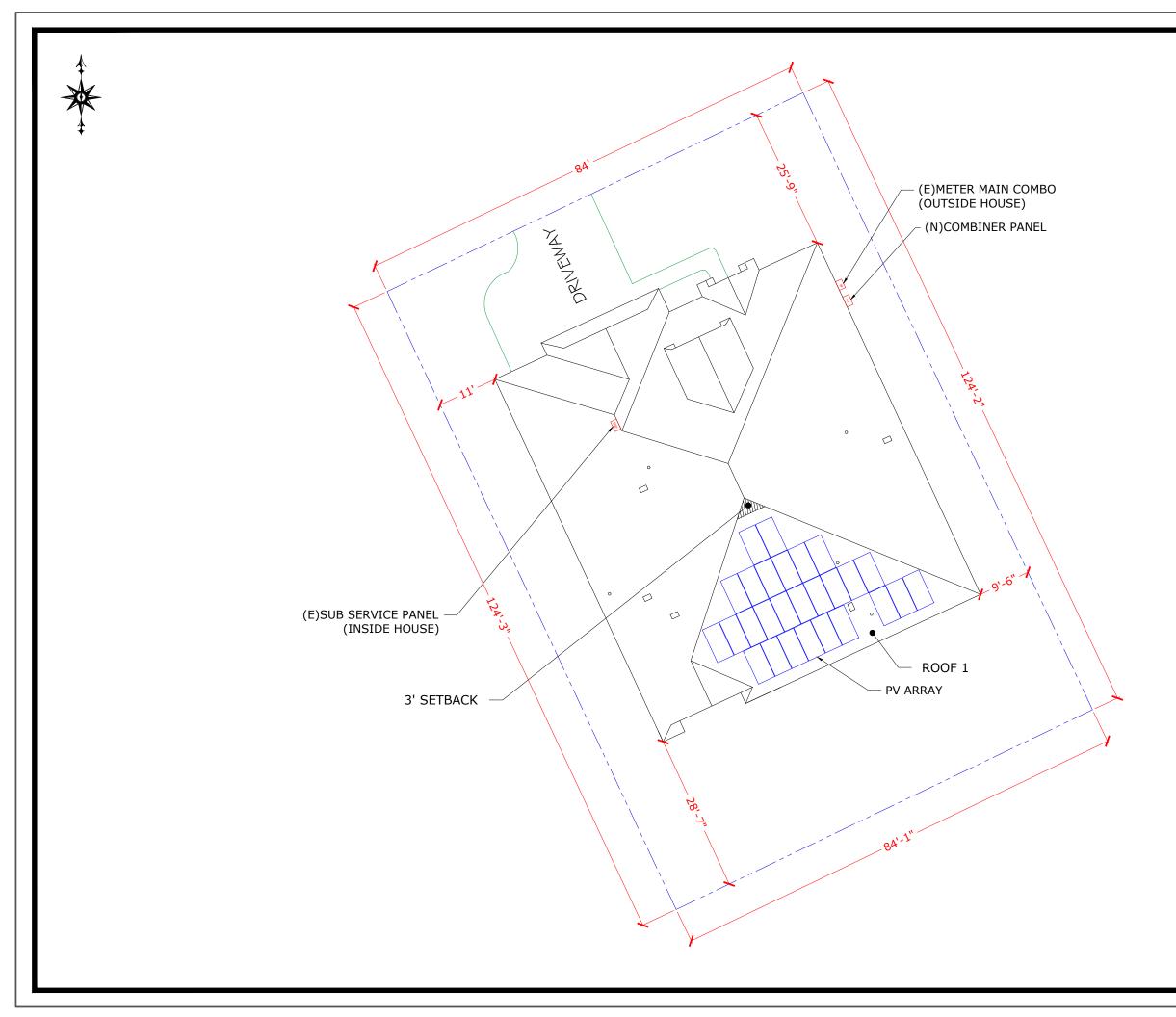
FLORIDA FIRE PREVENTION CODE, 7TH EDITION 2020 (FFPC)

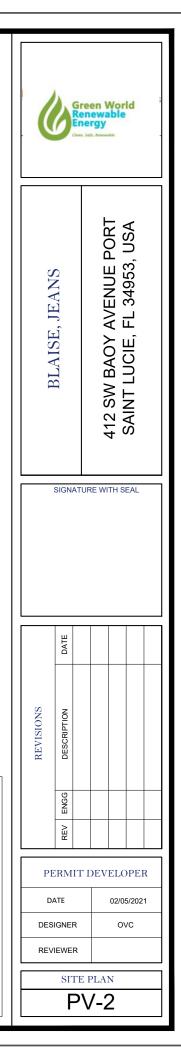
NATIONAL ELECTRIC CODE, NEC 2017 CODE BOOK

SHEET INDEX

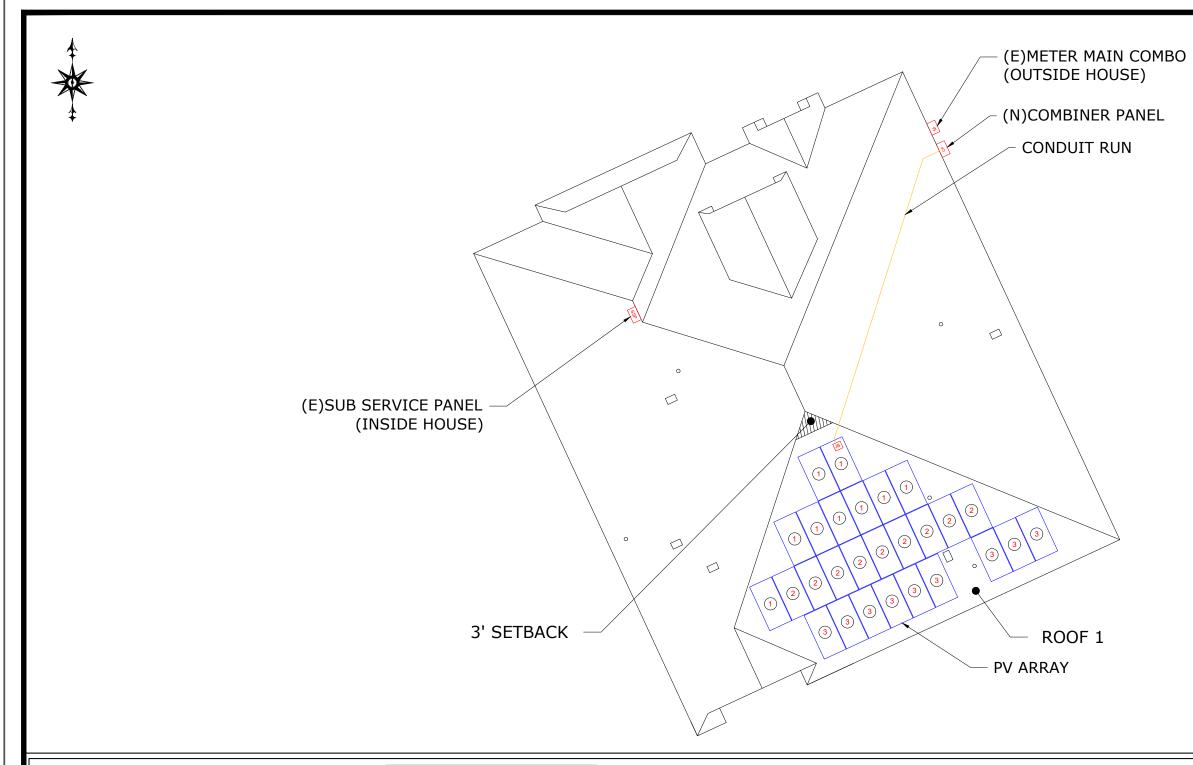
| SHEET NO. | SHEET NAME |
|-----------|-------------------------------|
| PV-1 | COVER PAGE |
| PV-2 | SITE PLAN |
| PV-3 | ROOF PLAN |
| PV-4 | ARRAY LAYOUT |
| PV-5 | RACKING LAYOUT |
| PV-6 | STRUCTURAL DETAILS |
| PV-7 | ELECTRICAL LINE DIAGRAM |
| PV-8 | ELECTRICAL CALCULATIONS |
| PV-9 | LABELS |
| PV-10 | MODULE DATASHEET |
| PV-11 | INVERTER DATASHEET |
| PV-12 | COMBINER PANEL DATASHEET |
| PV-13 | RACKING DATASHEET |
| PV-14 | ATTACHMENT DATASHEET |
| PV-15 | SEALANT DATASHEET |
| PV-16 | GROUNDING & BONDING DATASHEET |
| | |



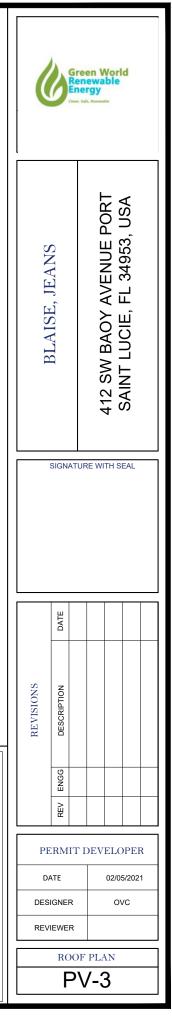


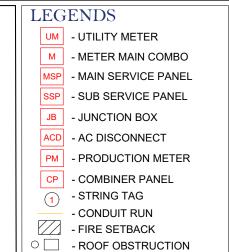


| LEG | ENDS |
|-----|----------------------|
| UM | - UTILITY METER |
| М | - METER MAIN COMBO |
| MSP | - MAIN SERVICE PANEL |
| SSP | - SUB SERVICE PANEL |
| ACD | - AC DISCONNECT |
| PM | - PRODUCTION METER |
| СР | - COMBINER PANEL |
| | - FIRE SETBACK |
| 0 | - ROOF OBSTRUCTION |



| | EQUIPMENT SPECIFICATIONS | | ROOF SPECIFICATIONS | | | ROOF INFO | SYSTEM INFORMATION | | | | |
|----------------|---|----------|---------------------|----------------|--|-----------|--------------------|-------|---------|----------------|-----------|
| EQUIPMENT | DESCRIPTION | QUANTITY | ROOF MATERIAL | FLAT TILE | | ROOF | QUANTITY | PITCH | AZIMUTH | DC SYSTEM SIZE | 11.070 KW |
| MODULE | JKM410M-72HL-V G2 (410W) JINKO SOLAR | 27 | ROOF CONDITION | GOOD | | ROOF 1 | 27 | 5/12 | 154° | AC SYSTEM SIZE | 7.830 KW |
| INVERTER | ENPHASE IQ7PLUS-72-2-US MICROINVERTERS | 27 | RAFTERS | 2"x4"@24" O.C. | | | | | | | |
| JUNCTION BOX | 600 V,NEMA 3R UL LISTED | 1 | | | | | | | | | |
| COMBINER PANEL | 125A ENPHASE IQ COMBINER 3 | 1 | | | | | | | | | |
| ATTACHMENT | IRONRIDGE (KNOCKOUT TILE) | 57 | | | | | | | | | |
| RACKING SYSTEM | IRONRIDGE XR100 RAILS | - | | | | | | | | | |





JUNCTION BOX 3' SETBACK 3 N SOLAR MODULE ν_{ο,} δ, 11'-3" 0 2 2 47'-2" ROOF 1

SYSTEM INFORMATION

DC SYSTEM SIZE

AC SYSTEM SIZE

11.070 KW

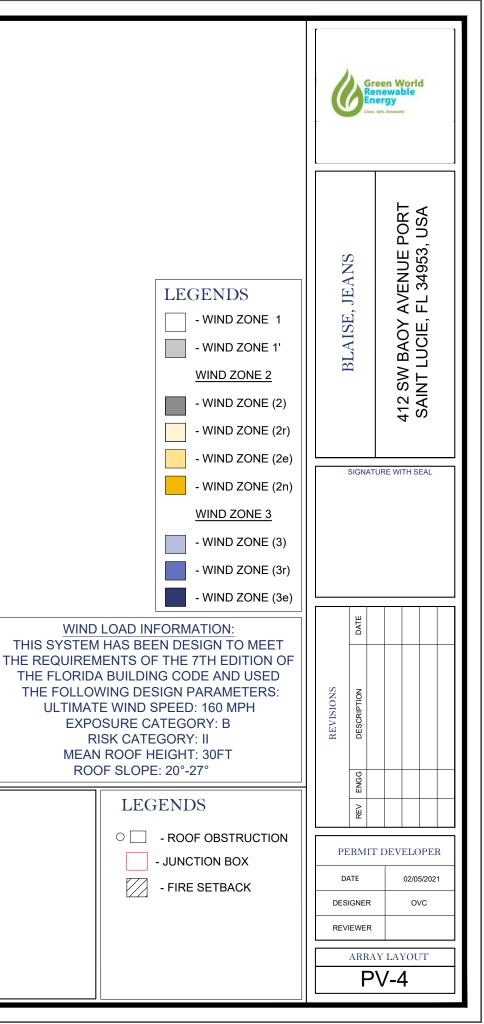
7.830 KW

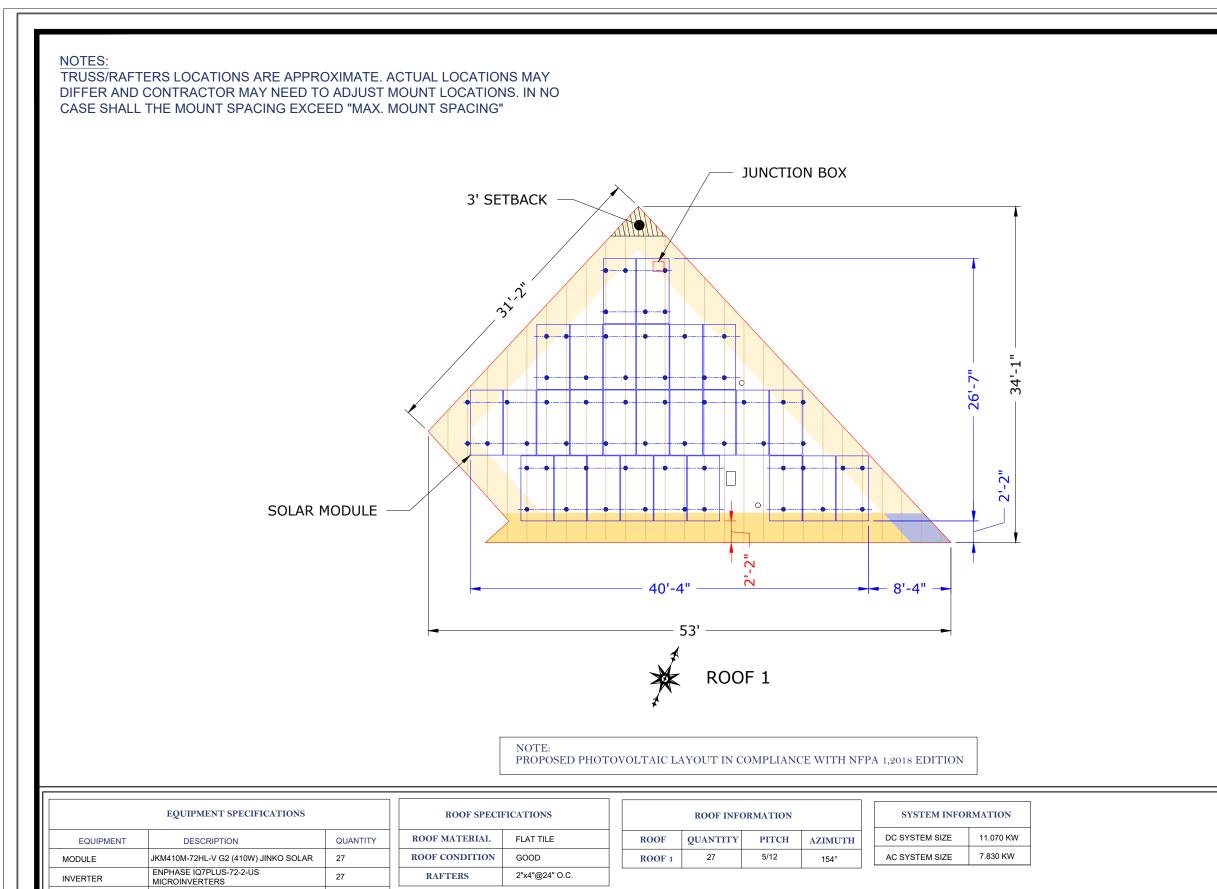
NOTE: PROPOSED PHOTOVOLTAIC LAYOUT IN COMPLIANCE WITH NFPA 1,2018 EDITION

AZIMUTH

154°

| | EQUIPMENT SPECIFICATIONS | | ROOF SPECI | FICATIONS | | ROOF INFO | ORM |
|----------------|---|----------|----------------|----------------|--------|-----------|-----|
| EQUIPMENT | DESCRIPTION | QUANTITY | ROOF MATERIAL | FLAT TILE | ROOF | QUANTITY | |
| MODULE | JKM410M-72HL-V G2 (410W) JINKO SOLAR | 27 | ROOF CONDITION | GOOD | ROOF 1 | 27 | |
| INVERTER | ENPHASE IQ7PLUS-72-2-US MICROINVERTERS | 27 | RAFTERS | 2"x4"@24" O.C. | | 11 | |
| JUNCTION BOX | 600 V,NEMA 3R UL LISTED | 1 | | | | | |
| COMBINER PANEL | 125A ENPHASE IQ COMBINER 3 | 1 | | | | | |
| ATTACHMENT | IRONRIDGE (KNOCKOUT TILE) | 57 | | | | | |
| RACKING SYSTEM | IRONRIDGE XR100 RAILS | - | | | | | |





JUNCTION BOX

ATTACHMENT

COMBINER PANEL

RACKING SYSTEM

600 V,NEMA 3R UL LISTED

IRONRIDGE XR100 RAILS

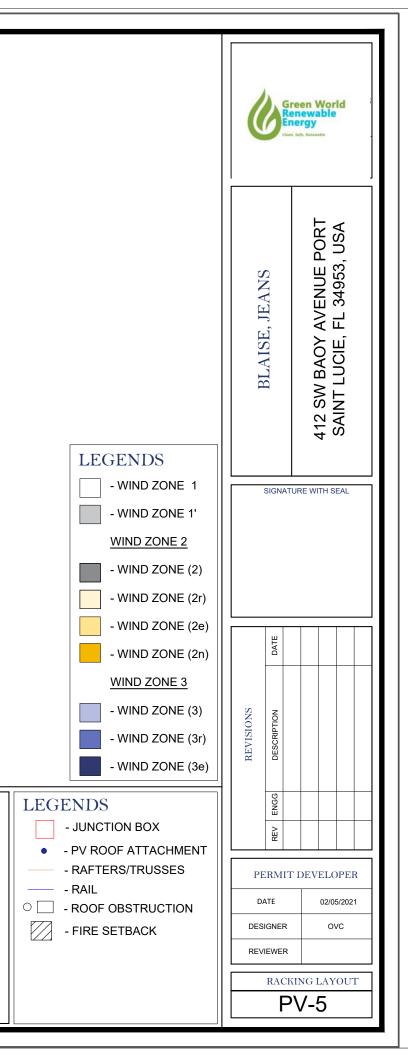
125A ENPHASE IQ COMBINER 3

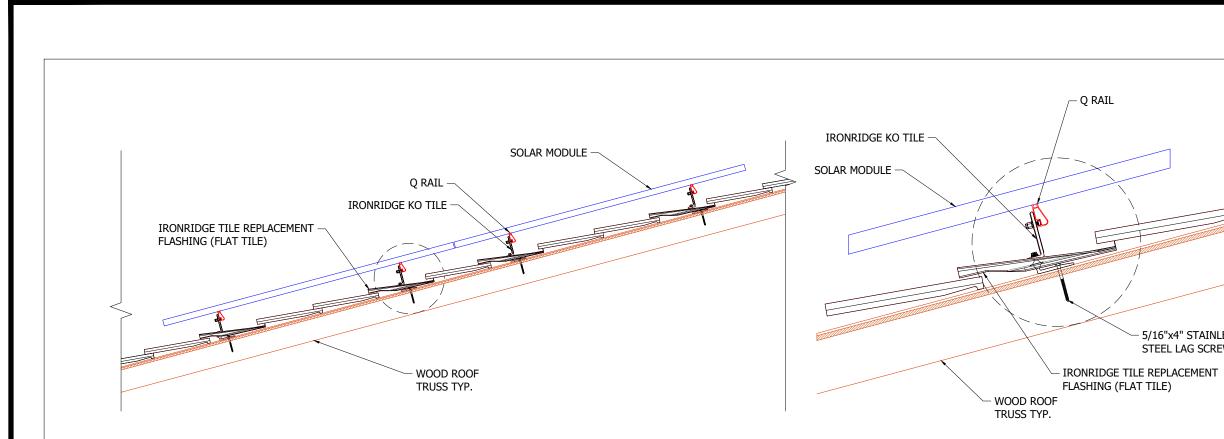
IRONRIDGE (KNOCKOUT TILE)

1

1

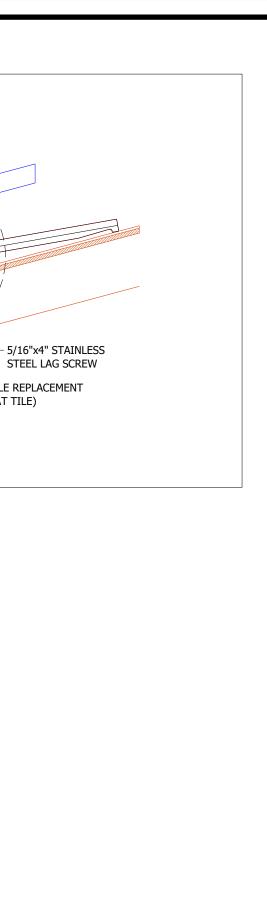
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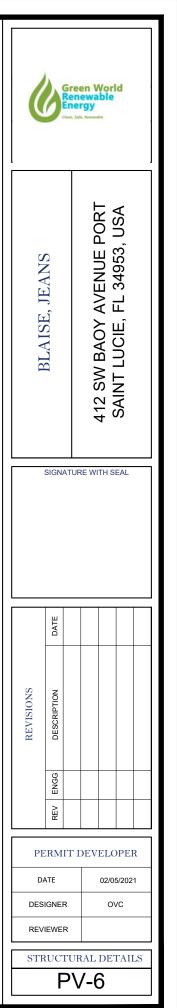




| | | | | | | | Panels | Attachm | ients | |
|--------------------|---------|-----------------------|-----------------------|------------------------|--------------------|---------|--------------|------------|-------------|--------------|
| ipan limits 🕕 | | - | | | Reaction Forces | | Uplift () | Down () | Uplift O | Lateral ® |
| | | XR10 | XR100 | XR1000 | | | (929) | (944) | (1145) | (16si) |
| one 1/2e 🕕 | Normal | 4' (1' 7") | 6' (2' 5") | 6' (2' 5") | Zone 1/2e | Normal | 26 | 165 | 315 | 17 |
| | Exposed | 4' (1' 7") | 6' (2' 5") | 6' (2' 5") | | Exposed | 38 | 165 | 484 | 17 |
| | Edge | 3' 1'' (1' 2") | 4' 11" (1' 11") | 4' 11" (1' 11") | | Edge | 53 | 191 | 674 | 17 |
| Zone 2n/2r/3e | Normal | 4' (1' 7") | 5' 11" (2' 5") | 5' 11" (2' 5") | Zone 2n/2r/3e | Normal | 40 | 165 | 511 | 17 |
| | Exposed | 0 " (0") | 4' 5" (1' 9") | 4' 5" (1' 9") | | Exposed | 61 | 165 | 778 | 17 |
| | Edge | 0 "' (0") | 0 " (0") | 0 " (0") | | Edge | N/A | N/A | N/A | N/A |
| Ione 3r | Normal | 3' 6 " (1' 5") | 5' 4" (2' 2") | 5' 4" (2' 2") | Zone 3r | Normal | 47 | 165 | 597 | 17 |
| | Exposed | 0 "' (0") | 3' 10" (1' 6") | 3' 10'' (1' 6") | | Exposed | N/A | N/A | N/A | N/A |
| | Edge | 0 " (0") | 0 " (0") | 0" (0") | | Edge | N/A | N/A | N/A | N/A |
| System Weight | | | | | | | | | | |
| otal system weight | | | | 1,277.9 lbs | | | | | | |
| Weight/attachment | | | | 31.9 lbs | | | | | | |
| Racking weight | | | | 236.3 lbs | | | | | | |
| Distributed weight | | | | 2.8 psf | | | | | | |

STRUCTURAL DETAILS





CONDUIT SCHEDULE

| SR. NO. | DESCRIPTION | CONDUIT SIZE |
|---------|---|---------------------|
| A | ENPHASE Q CABLES, (1) #10 AWG THWN-2 (G) | |
| 1 | (3) #10 AWG THWN-2 (L1) ,(3) #10 AWG THWN-2 (L2) , (1) #10 AWG THWN-2 (G) | IN 3/4" CONDUIT RUN |
| 2 | (3) #8 AWG THWN-2 (L1,L2,N) , (1) #10 AWG THWN-2 (G) | IN 3/4" CONDUIT RUN |

(27) JKM 410M-72HL-V G2 (410W) JINKO SOLAR MODULES WITH

MODULE SPECIFICATION

| MODULE SPEC | IFICATION |
|-----------------------------|--------------------|
| MANUFACTURER | JINKO SOLAR |
| MODEL NO. | JKM 410M-72HL-V G2 |
| PEAK POWER (Pmpp) | 410W |
| PEAK VOLTAGE (Vmpp) | 40.68V |
| PEAK CURRENT (Impp) | 10.08A |
| OPEN CIRCUIT VOLTAGE (Voc) | 49.6V |
| SHORT CIRCUIT CURRENT (Isc) | 10.76A |

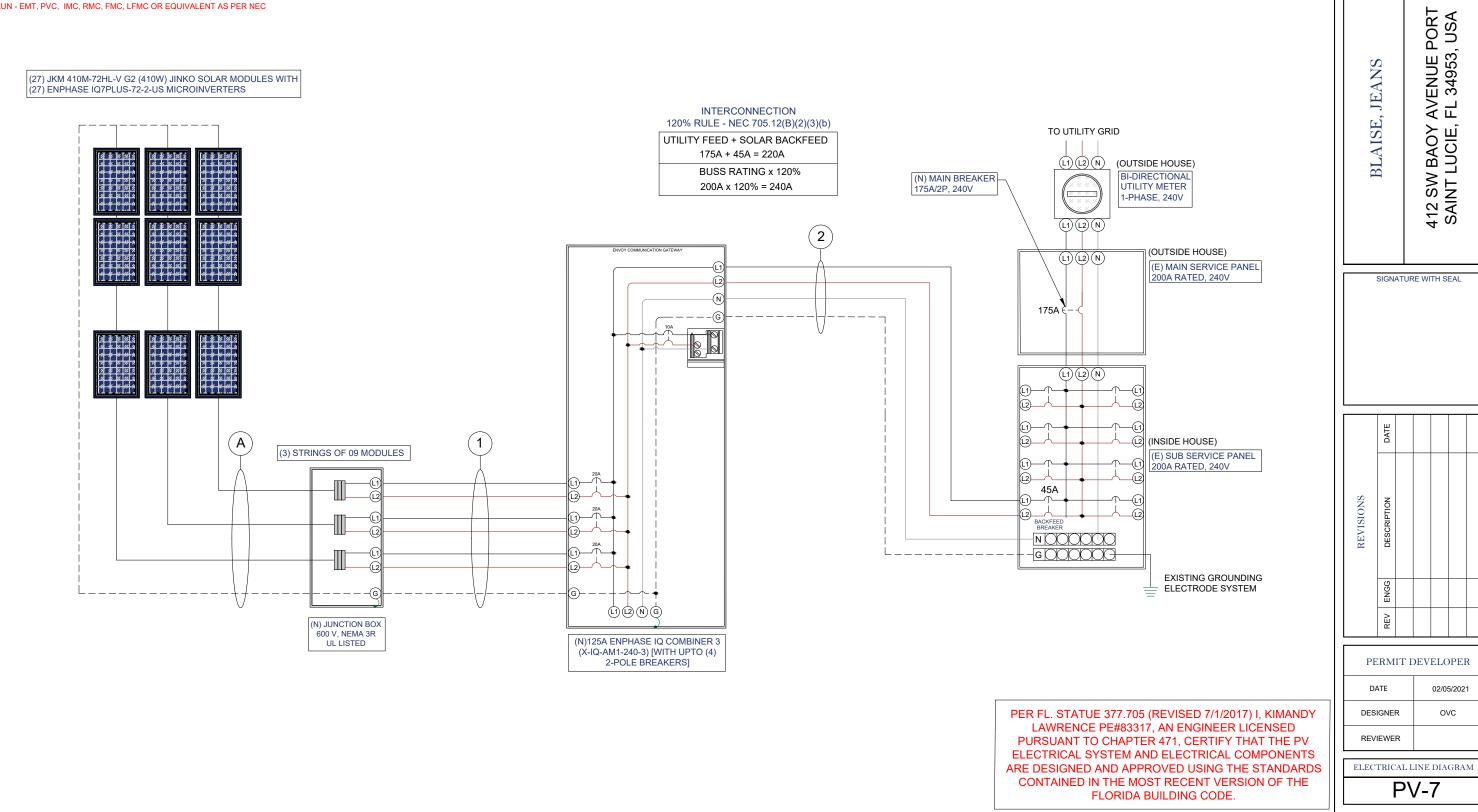
INVERTER SPECIFICATION

| MANUFACTURER | ENPHASE |
|---------------------------|-----------------|
| MODEL NO. | IQ7PLUS-72-2-US |
| MAX. DC INPUT VOLTAGE | 60V |
| MAX. CONT. OUTPUT POWER | 290VA |
| NOMINAL AC OUTPUT VOLTAGE | 240V |
| MAX. CONT. OUTPUT CURRENT | 1.21A |

| ARRAY D | ETAILS |
|--------------------------|-----------|
| DC SYSTEM SIZE | 11.070 KW |
| AC SYSTEM SIZE | 7.83 KW |
| TOTAL NO. OF MODULES | 27 |
| NO. OF MODULE PER STRING | 3@9 |
| NO. OF STRING | 3 |

Green World

NOTE: CONDUIT RUN - EMT, PVC, IMC, RMC, FMC, LFMC OR EQUIVALENT AS PER NEC



AC S TOT NO. NO.

ELECTRICAL CALCULATIONS:

- 1. CURRENT CARRYING CONDUCTOR
- (A) BEFORE IQ COMBINER PANEL :

AMBIENT TEMPERATURE = 33°C CONDUIT INSTALLED AT MINIMUM DISTANCE OF 7/8 INCHES ABOVE ROOFNEC 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) x 1.25 / A.T.F / G.F ...NEC 690.8(B) = [(9x 1.21) x 1.25] / 0.96 / 0.8 = 17.72 A SELECTED CONDUCTOR - #10 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) =[(27 x 1.21) x 1.25] / 0.96 / 1 =42.53 A SELECTED CONDUCTOR - #8 THWN-2 ...NEC 310.15(B)(16)

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

=TOTAL INVERTER O/P CURRENT x 1.25 =(27 x 1.21) x 1.25 = 40.83 A SELECTED OCPD IS 45A

SELECTED EQUIPMENT GROUNDING CONDUCTOR (EGC) = #10 THWN-2 ... NEC 250.122(A)

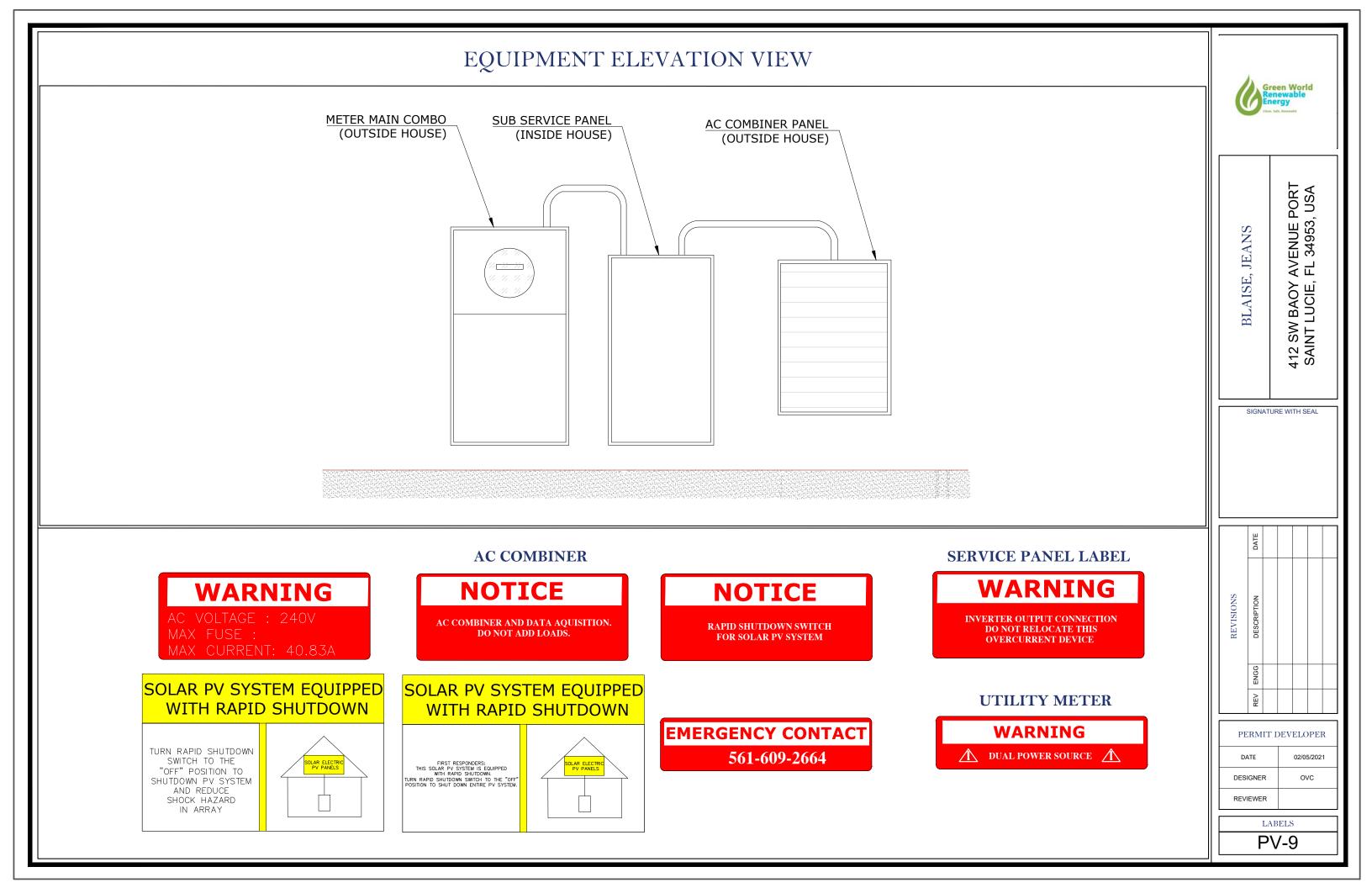
GENERAL ELECTRICAL NOTES:

- 1. 1. THE DC AND AC CONNECTORS OF THE ENPHASE IQ7PLUS-72-2-US ARE AS A DISCONNECT MEANS AS ALLOWED BY NEC 690.15(A).
- 2. MICROINVERTER BRANCH CIRCUIT CONDUCTORS ARE MANUFACTURED I IN 20A OR LESS CIRCUITS OF ENPHASE IQ MICROINVERTERS. THEY ARE I RESISTANT. THEY CONTAIN AWG CONDUCTORS OF TYPE THHN/THWN-2 I AND UL 9703. THE CABLE'S DOUBLE INSULATED RATING REQUIRES NO NE
- ALL METAL ENCLOSURES, RACEWAYS, CABLES AND EXPOSED NONCURRI EQUIPMENT SHALL BE GROUNDED TO EARTH AS REQUIRED BY NEC 250.4 AND EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING ELECTRODE SYSTEM SHALL ADHERE TO 690.47(A) AND 250.169. THE DC GI SIZED ACCORDING TO 250.166
- 4. PV SYSTEM DISCONNECT SHALL BE READILY ACCESSIBLE.
- 5. POINT-OF-CONNECTION SHALL BE MADE IN COMPLIANCE WITH NEC 705.1
- 6. UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYST THE SERVICE ENTRANCE.
- 7. MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.
- CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT R NEC ARTICLE 300.6(C)(1) AND ARTICLE 310.10 (D).
- CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR US ARTICLE 310.10 (C).

GROUNDING NOTES:

PV MODULE AND RACKING GROUNDING AS PER APPROVED INSTALLATION PRA MANUFACTURE'S GUIDELINES.

| E LISTED TO MEET REQUIREMENTS ENPHASE Q CABLES LISTED FOR USE ROHS, OIL RESISTANT, AND UV DRY/WET AND CERTIFIED TO UL3003 EUTRAL OR GROUNDED CONDUCTOR. | | Re | een V newa ergy Safe, Access | Norl ible | d | |
|---|----------------|---------------|---------------------------------------|--------------|----------------------------|----|
| RENT-CARRYING METAL PARTS OF 4(B) AND PART III OF NEC ARTICLE 250 NG TO NEC 690.45. THE GROUNDING GROUNDING ELECTRODE SHALL BE 12 TEM COMPONENTS LOCATED AT RESISTANT PER JSE IN WET LOCATIONS PER NEC | DI AICE IFANIC | DLAIDE, JEANO | | | SAINT LUCIE, FL 34933, USA | |
| ACTICE AND IN LINE WITH | | SIGNAT | URE W | ITH SI | EAL | |
| | | DATE | | | | |
| | REVISIONS | DESCRIPTION | | | | |
| | | / ENGG | | | | |
| | | ERMIT | DEV | TEL O |)PFF | |
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| | REV | IEWER | | | | |
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| | ELEC | TRICAI | V_{-} | - | 1101 | N5 |



THE MOST DEPENDABLE SOLAR BRAND

EAGLE 72HM G2

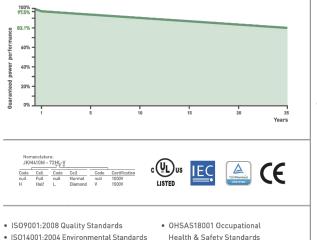
390-410 WATT • HALF CELL MONO PERC MODULE

Positive power tolerance of 0~+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Best-selling module globally for last 4 years
- Top performance in the strictest 3rd party labs
- 99.9% on-time delivery to the installer
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar panel factories in USA and Malaysia

LINEAR PERFORMANCE WARRANTY

25-Year Performance Warranty



- ISO14001:2004 Environmental Standards
- IEC61215, IEC61730 certified products UL1703 certified products

BUILDING YOUR TRUST IN SOLAR. JINKOSOLAR.US

KEY FEATURES



25 YRS

Diamond Half Cell Technology World-record breaking efficient mono PERC half cut solar cells deliver high power in a small footprint.

Designed for Long Life

Uses the same DuPont protective film as the Space Station, Mars Lander, and jetliners. 25-year warranty.

Shade Tolerant



 \dot{a}

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



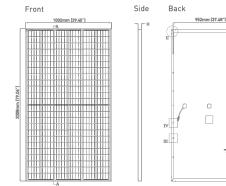
Power Boost in Cloudy Conditions A special film diffuses light, boosting performance even with shading by trees or debris.

Protected Against All Environments



Solar JinKÖ

ENGINEERING DRAWINGS



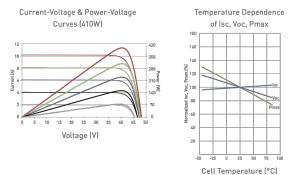


| Cells | Mono PERC |
|-------------------|-------------------------|
| No. of Half Cells | 144 (6×24) |
| Dimensions | 2008×1002 |
| Weight | 22.5kg (49. |
| Front Glass | 3.2mm, An High Trans |
| Frame | Anodized A |
| Junction Box | IP67 Rated |
| Output Cables | 12 AWG, 14 |
| Fire Type | Type 1 |
| Pressure Rating | 5400Pa (Sn |



Temperature Coefficients of Pma Temperature Coefficients of Voc Temperature Coefficients of Isc Nominal Operating Cell Tempera

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



of Isc. Voc. Pmax

Row Pitch: ± 2mm

Operating Temperature (°C) Maximum System Voltage Maximum Series Fuse Rating

MAXIMUM RATINGS

PACKAGING CONFIGURATION

(Two pallets = One stack) 27pcs/pallet, 54pcs/stack, 594pcs/40'HQ Container

ELECTRICAL CHARACTERISTICS

| Module Type | JKM390M | 1-72HL-V | JKM395N | 4-72HL-V | JKM400N | 1-72HL-V | JKM405 | 4-72HL-V | JKM410 | 4-72HL-V |
|-----------------------------|---------|----------|---------|----------|---------|----------|--------|----------|--------|----------|
| | STC | NOCT | STC | NOCT | STC | NOCT | SCT | NOCT | SCT | NOCT |
| Maximum Power (Pmax) | 390Wp | 287Wp | 395Wp | 291Wp | 400Wp | 294Wp | 405Wp | 298Wp | 410Wp | 302Wp |
| Maximum Power Voltage (Vmp) | 39.64V | 37.0V | 39.90V | 37.4V | 40.16V | 37.6V | 40.42V | 37.8V | 40.68V | 38.0V |
| Maximum Power Current (Imp) | 9.84A | 7.75A | 9.90A | 7.77A | 9.96A | 7.82A | 10.02A | 7.88A | 10.08A | 7.94A |
| Open-circuit Voltage (Voc) | 48.6V | 45.8V | 48.8V | 46.0V | 49.1V | 46.2V | 49.4V | 46.5V | 49.6V | 46.7V |
| Short-circuit Current (lsc) | 10.46A | 8.45A | 10.54A | 8.51A | 10.61A | 8.57A | 10.69A | 8.63A | 10.76A | 8.69A |
| Module Efficiency STC (%) | 19.3 | 8% | 19.0 | 53% | 19.8 | 8% | 20. | 13% | 20. | 38% |

*STC: : Irradiance 1000W/m² NOCT: - Irradiance 800W/m² *Power measurement tolerance: ±3%

▲ Cell Temperature 25°C Ambient Temperature 20°C

→ AM = 1.5 → AM = 1.5 Wind Speed 1m/s

The company reserves the final right for explanation on any of the information presented hereby. JKM390-410M-72HL-V-A4-US

BUILDING YOUR TRUST IN SOLAR. JINKOSOLAR.US

C Diamond Cell (158.75x158.75mm)

2×40mm (79.06×39.45×1.57in)

6lbs

nti-Reflection Coating smission, Low Iron, Tempered Glass

Aluminum Alloy

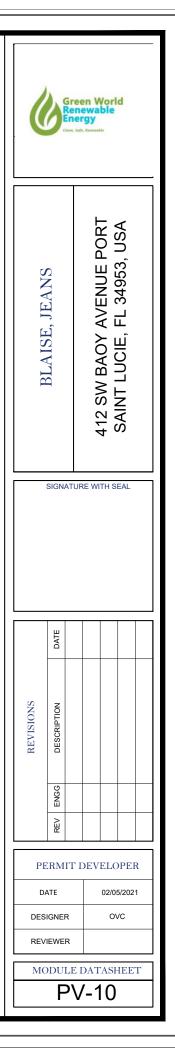
400mm (55.12in) or Customized Length

now] & 2400Pa (Wind)

| ax | -0.35%/°C |
|--------------|-----------|
| | -0.29%/°C |
| | 0.048%/°C |
| ature (NOCT) | 45±2°C |
| | |

-40°C~+85°C 1500VDC (UL and IEC) 20A





Data Sheet Enphase Microinverters Region: AMERICAS

Enphase IQ 7 and IQ 7+ Microinverters

Easy to Install

• Lightweight and simple

warranty of up to 25 years.

- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

The high-powered smart grid-ready

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

Enphase IQ 7 Micro[™] and Enphase IQ 7+ Micro[™]

dramatically simplify the installation process while

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7+ Micro is required to support 72-cell modules.



To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7 and IQ 7+ Microinverters

| INPUT DATA (DC) | IQ7-60-2-US | IQ7PLUS-72-2 | 2-U | | | |
|--|--|---|--------------------------------------|--------------|--|--|
| Commonly used module pairings ¹ | 235 W - 350 W - | 235 W - 440 W + | | | | |
| Module compatibility | 60-cell PV modules only | | 60-cell and 72 | -cell | | |
| 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 ion requires max 20 | | | | |
| OUTPUT DATA (AC) | IQ 7 Microinv | erter | IQ 7+ Microi | nve | | |
| 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 | 2 | | |
| Maximum continuous output current | 1.0 A (240 V) | 1.15 A (208 V) | 1.21 A (240 V) | 1 | | |
| Nominal frequency | 60 Hz | | 60 Hz | | | |
| Extended frequency range | 47 - 68 Hz | | 47 - 68 Hz | | | |
| AC short circuit fault current over 3 cycles | 5.8 Arms | | 5.8 Arms | | | |
| Maximum units per 20 A (L-L) branch circuit ³ | 16 (240 VAC) | 13 (208 VAC) | 13 (240 VAC) | 1 | | |
| Overvoltage class AC port | 111 | | 111 | | | |
| AC port backfeed current | 18 mA | | 18 mA | | | |
| Power factor setting | 1.0 | | 1.0 | | | |
| Power factor (adjustable) | 0.85 leading | 0.85 lagging | 0.85 leading | 0.8 | | |
| EFFICIENCY | @240 V | @208 V | @240 V | (| | |
| Peak efficiency | 97.6 % | 97.6 % | 97.5 % | | | |
| CEC weighted efficiency | 97.0 % | 97.0 % | 97.0 % | | | |
| MECHANICAL DATA | | | | | | |
| Ambient temperature range | -40°C to +65°C | | | | | |
| Relative humidity range | 4% to 100% (condensing) | | | | | |
| Connector type | MC4 (or Amphenol H4 UTX with additional Q-DCC-5 | | | | | |
| Dimensions (HxWxD) | 212 mm x 175 r | mm x 30.2 mm (with | out bracket) | | | |
| Weight | 1.08 kg (2.38 lbs) | | | | | |
| Cooling | Natural convection - No fans | | | | | |
| Approved for wet locations | Yes | | | | | |
| Pollution degree | PD3 | | | | | |
| Enclosure | | | | | | |
| Environmental category / UV exposure rating | Class II double-insulated, corrosion resistant polyr NEMA Type 6 / outdoor | | | | | |
| FEATURES | NEWA Type 07 | outdool | | _ | | |
| Communication | Power Line Cor | mmunication (PLC) | | _ | | |
| | | · , | n monitoring ont | | | |
| Monitoring | Enlighten Manager and MyEnlighten monitoring option Both options require installation of an Enphase IQ Envo | | | | | |
| Disconnecting means | The AC and DC connectors have been evaluated and a disconnect required by NEC 690. | | | | | |
| Compliance | CAN/CSA-C22. This product is NEC-2017 secti | 1741/IEEÉ1547, FCC | pid Shut Down Eq 1-2015 Rule 64-2 | uipr 18 R | | |

No enforced DC/AC ratio. See the compatibility calculator at <u>https://enphase.com/en-us/support/module-compatibil</u>
 Nominal voltage range can be extended beyond nominal if required by the utility.
 Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit enphase.com

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| JS | (| 6 | ireen enew nerg | World vable y sentte | a |
|---|---------------|----------------------|-----------------------|--|----------|
| ell PV modules on required; t 208 V / 183-229 V 1.39 A (208 V) 11 (208 VAC) 85 lagging | DI VICE LEVNC | DLADE, JEANO | | 412 SW BAOY AVENUE PORT SAINT LICIF FL 34953 LISA | |
| @208 V 97.3 % 97.0 % | | SIGNAT | URE W | /ITH SE/ | AL |
| c enclosure | | DATE | | | |
| is. by. pproved by UL for use as the load-break ES-0003 Class B, pment and conforms with NEC-2014 and Rapid Shutdown of PV Systems, for AC cturer's instructions. | REVISIONS | REV ENGG DESCRIPTION | | | |
| lity. | PE | ERMIT | Γ DEV | VELOF | PER |
| | D | ATE | | 02/05/2 | 2021 |
| ta subject to change. 2020-01-06 | | IGNER | | ovo | <u> </u> |
| | INV | | | ATASH | IEET |
| | | P | V-^ | 11 | |

Data Sheet Enphase Networking

Enphase IQ Combiner 3 (X-IQ-AM1-240-3)





LISTED

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

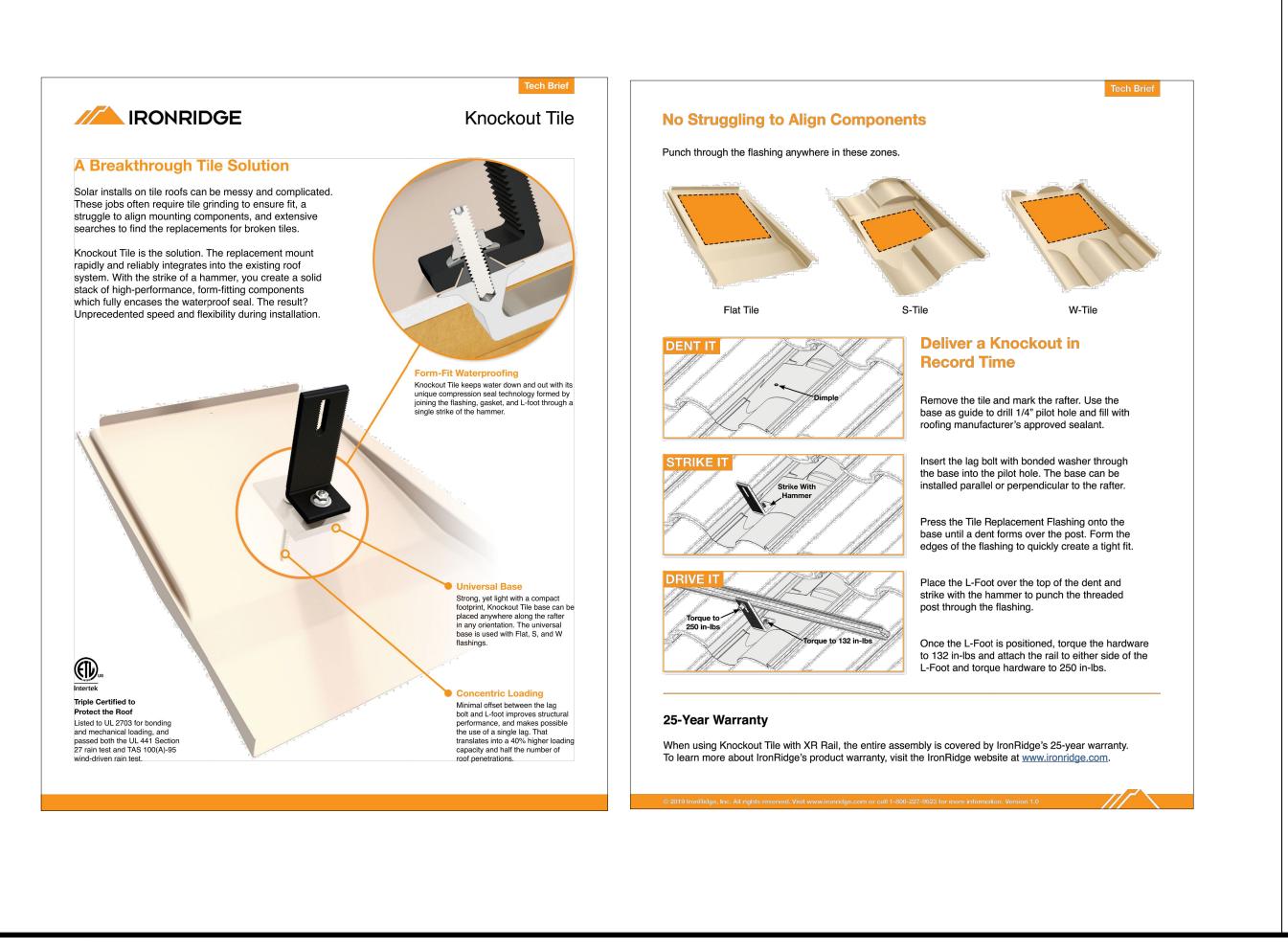
- Durable NRTL-certified NEMA type
- 3R enclosure
- Five-year limited warranty
- UL listed

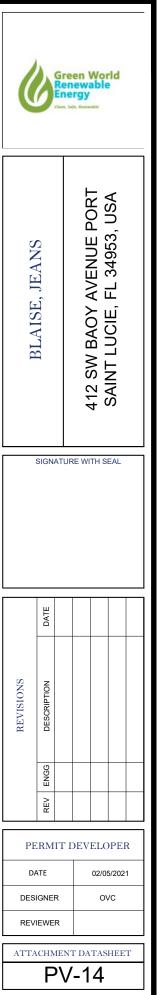


To learn more about Enphase offerings, visit enphase.com

| 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%). | | Gr | een Wor newable ergy ste. Recentle | Id |
|---|---|--|---|--|
| 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, n) where there is adequate cellular service in the installation area.) Split core current transformers enable whole home consumption metering (+/- 2.5%). Installed at the IQ Envoy. For communications with Enphase Encharge''' storage and Enphase Enpower''' smart switch. Includes USB cable for connection to IQ Envoy or Enphase IQ Combiner ^{'''} and allows redundant wireless communication with Encharge and Enpower. 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 BR210 Circuit breaker, 2 pole, 15A, Eaton BR220 Power line carrier (communication bridge pair), quantity - one pair Accessory receptacle for Power Line Carrier in IQ Combiner 3 (required for EPLC-01) Replacement IQ Envoy printed circuit board (PCB) for Combiner 3 Continuous duty 120/240 VAC, 60 Hz 125 A 65 A | | BLAISE, JEANS | AVENUE F | SAINT LUCIE, FL 34953, USA |
| Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included) 64 A 80A of distributed generation / 90A with IQ Envoy breaker included 200 A solid core pre-installed and wired to IQ Envoy 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). 7.5 kg (16.5 lbs) -40° C to +46° C (-40° to 115° F) | | SIGNATI | JRE WITH \$ | SEAL |
| Natural convection, plus heat shield Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction • 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 • Neutral and ground: 14 to 1/0 copper conductors • Always follow local code requirements for conductor sizing. | | DATE | | |
| To 2000 meters (6,560 feet) 802.11b/g/n Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included) Optional, CELLMODEM-01 (3G) or CELLMODEM-03 (4G) or CELLMODEM-M1 (4G based LTE-M) (not included) 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) | REVISIONS | / ENGG DESCRIPTION | | |
| | | ERMIT | 02/0 | OPER 05/2021 |
| | production metering (ANSI C12.20 +/- 0.5%) and optional* consumption monitoring (+/- 2.5%). not included, order separately) Plug and play industrial grade cellular modem with data plan for systems up to 60 microinvertes. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, n) where there is adequate cellular service in the installation area.) Split core current transformers enable whole home consumption metering (+/- 2.5%). metering (AVAI) Installed at the Q Envoy. For communication with Enphase Encharge storage and Enphase Encover: surgers and Enphase (Combiner' and allows redundant wireless communication with Encharge and Enpower. Supports Earlon BR210, BR210, BR220, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 104, Eaton BR2115 Circuit breaker, 2 pole, 104, Eaton BR215 Circuit breaker, 2 pole, 104, Eaton BR216 Continuous duty 120/240 VAC, 60 Hz 125 A 65 A 90 A Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included) 64 A 80A of distributed generation / 90A with IQ Envoy breaker included 2004 A Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included) 64 A 80A of distributed generation / 90A with IQ Envoy breaker included 200 A to to | production metering (ANSI 012:20 +/: 0.5%) and optional* consumption monitoring (+/: 2.5%). not included, order separately) Plug and play industrial grade cellular modern with data plan for systems up to 60 microinverters. (Available in the US. Granda, Maxico, Puerto Rico, and the US Virgin Islands, o) where there is adequate cellular service in the installation area.) Split core current transformers enable whole home consumption metering (+/: 2.5%). me installed at the 10 Envoy. For communications with Enchance and Enpower phase 10 Combiner" and allows redundant wireless communications with Enchance and Enpower phase 10 Combiner" and allows redundant wireless communication with Enchance and Enpower phase 10 Combiner" and allows redundant wireless communication with Enchance and Enpower phase 10 Combiner and Combiner and Combiner and Combiner and Combiner and Enpower phase 10 Combiner and Combiner and Combiner and Enpower phase 10 Combiner and Combiner and Enpower phase 10 Combiner and Combine and Combine and Combiner and Combiner and Combin | IC Combiner 3 with Explore (I Exroy" printed circuit board for integrated rewnue grade PV production metric (JANS (1720 ± 0.5%) and optional* consumption monitoring ((+ 2.5%)). not included, order separately) Plug and play industrial grade cellular modern with data plas for systems up to 00 microinvertex. (Available in the US, Canada, Maccio, Duvor Rich, and the US Yrugh Islands, n) where there is adequate cellular sortice in the installation area.) Split core current transforms are anale whole home consumption metring (+ 7.2.5%). To included at the ID Envoy, For communications with Enphase Encharge* attrapes and Enphase Enpower* snort switch. Includes USB cable for concention to ID Envoy of Rphase ID Combine* and allows at during and the plast for systems up to 00 microinvertex. 2 pole, 2004. Each BR 2012 (1994). Drawer line carrier for RP210, BR220, BR220, BR240, BR220, and BR260 circuit breakers. Drawer line carrier (Communication RP210; BR220, BR240, BR220, and BR260 circuit breakers. Drawer line carrier (Communication RP210; BR220, BR240, BR220, and BR260 circuit breakers. Drawer line carrier (Communication RP210; BR220, BR240, BR220, and BR260 circuit breakers. Drawer line carrier (Communication RP210; BR220, BR240, BR240, BR240, BR240, and BR260 circuit breakers. Drawer line carrier (Communication RP210; BR220, BR240, BR240 | production metering (ANSI C12: 20 +/- 0.5%) and optional* consumption monitoring (+/- 2.5%). Plug and pipi industrial grade cellular modem with data plan for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerte Rico, and the US Vipin Islands, n) where there is adoute cellular service in the installation area.) Split core current transformers enable whole home consumption metering (+/- 2.5%). min railed at the IQ Envoy. For communications with Exphase Enchange" storage and Exphase (Combiner' and Blove redundant witeless communication with Enchange and Expower. Supports Earlor B21, B21,5 B22, B22,0 B |







PG500

UTILITY PAPER MASKING TAPE

DESCRIPTION

An economical beige, smooth crepe paper masking tape with a pressure-sensitive synthetic rubber adhesive.

PRODUCT APPLICATION

Can be used for a variety of non-critical tape applications such as hanging paper, poly and poster board.



NOMINAL VALUES

The following data are nominal values based on PSTC, ASTM and other standard tests. The data should not be considered as specifications.

| Backing | Smooth Crepe Paper |
|---|-----------------------------------|
| Adhesive | Synthetic Rubber/Resin |
| Adhesion to Steel (oz/in of width) PSTC-101 | 48 (13 N/25mm) |
| Tensile Strength (Ibs/in of width) PSTC-131 | 21 (92 N/25mm) |
| Elongation (% at break) PSTC-131 | 7.5 |
| Total Thickness (mils) PSTC-133 | 5.0 (0.127mm) |
| Quick Stick (oz/in of width) PSTC-5 To Kraft To Steel | 5 (1.4 N/25mm) 16 (4.4 N/25mm) |
| Color | Beige |
| | |



intertape polymer group

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EFFECTIVE: 12/11



