

SCOPE OF WORK:

TO INSTALL A ROOF MOUNTED SOLAR PHOTOVOLTAIC SYSTEM AT THE OWNER RESIDENCE LOCATED AT 283 SW JUNE GLEN, LAKE CITY, FL 32024.

SYSTEM DC RATING: 8.80 KWDC SYSTEM AC RATING: 6.39 KWAC

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.
- 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.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED MATERIALS.
- 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 RECEIVED SAFETY TRAINING TO RECOGNIZE AND AVOID THE HAZARDS INVOLVED. (NEC 690.4(C), NEC 2017).
- NEW CONDUIT ROUTING SHOWN IS ESSENTIALLY SCHEMATIC. CONTRACTOR 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.
- THE AC DISCONNECT MUST BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH.

| SHEET INDEX | | | | | | |
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| CS-0 | COVER SHEET & BOM | | | | | |
| E-1 | STRING LAYOUT & SIGNAGE | | | | | |
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GOVERNING CODES

2018 NFPA 1 (FIRE CODE)

2020 FFPC (7TH EDITION)

2017 NATIONAL ELECTRICAL CODE

2020 FLORIDA BUILDING CODE (7TH EDITION)

AUTHORITY HAVING JURISDICTION (AHJ): COLUMBIA COUNTY

| BILL OF MATERIALS | | | | | | | |
|-------------------|---|--|--|--|--|--|--|
| QTY | DESCRIPTION | | | | | | |
| 22 | Q.PEAK DUO BLK ML-G10+ 400W | | | | | | |
| 22 | ENPHASE IQ8PLUS-72-2-US | | | | | | |
| 1 | JUNCTION BOX, NEMA 3R, UL LISTED | | | | | | |
| 1 | ENPHASE IQ COMBINER 4/4C W/ IQ ENVOY (X-IQ-AM1-240-4) | | | | | | |
| 1 | NON-FUSED AC DISCONNECT, 240V, NEMA 3R, UL LISTED | | | | | | |
| 1 | (ES1PN), 120V/240V, NEMA 3X | | | | | | |
| | 22 | | | | | | |



SIGNATURE WITH SEAL

REVISIONS

SHEET NAME **COVER SHEET & BOM** SHEET NUMBER

CS-0

DATE

DESCRIPTION

Drawn by: Checked by: REV

10/25/22

SOLAR

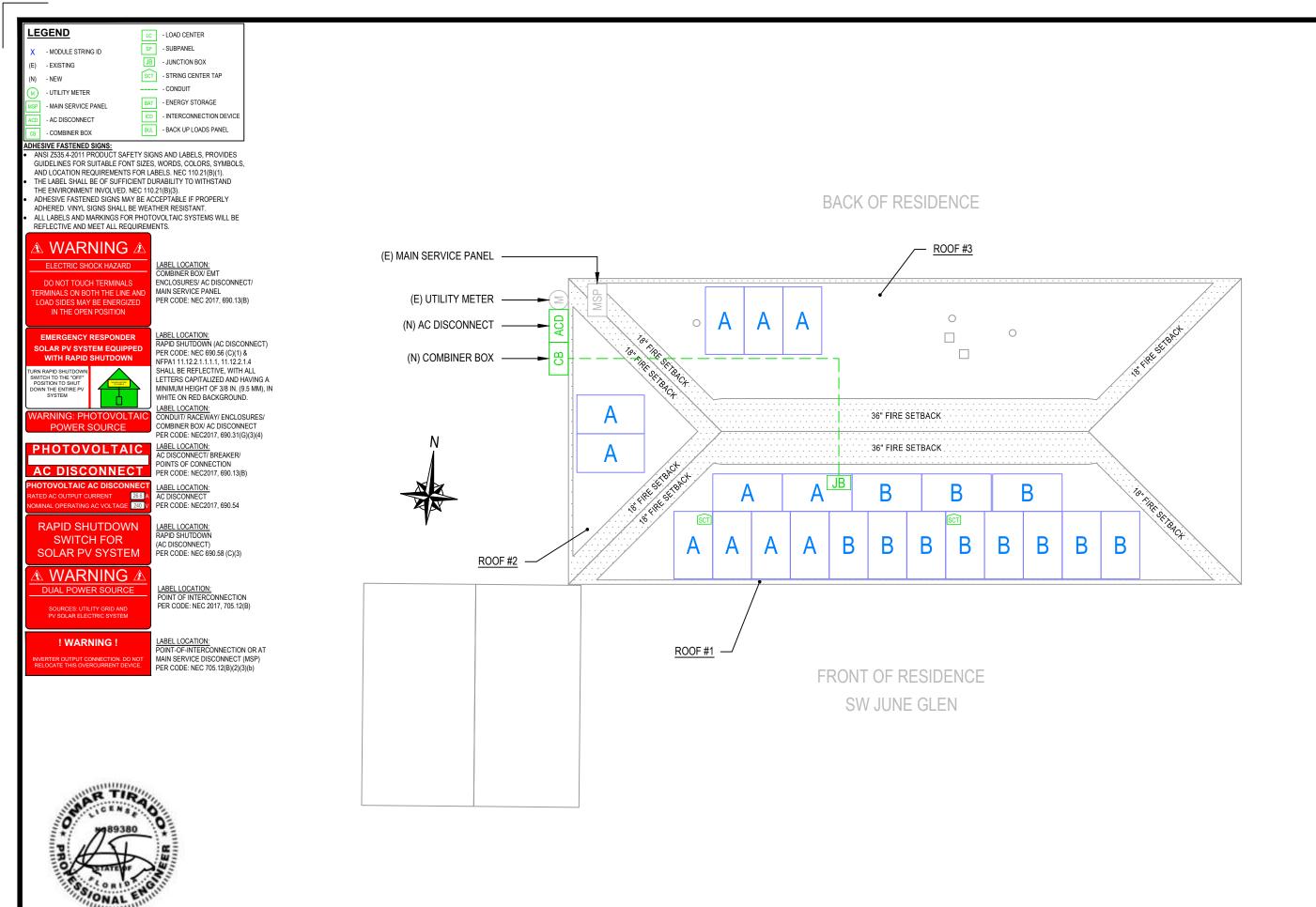
ATLANTIC KEY ENERGY LLC 7006 STAPOINT CT

> WINTER PARK, FL 32792 +1 (407) 988-0273

PROJECT NAME & ADDRESS

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY OMAR TIRADO ON THE DATE ADJACENT TO THE SEAL, PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEAL, AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

| TIR TIRE |
|--------------------------------|
| 2022.10.25 18:36:15 -04'00' |
| ONAL ENTINE |



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1 ROOF PLAN WITH STRING LAYOUT
E-1 SCALE: NTS

ATLANTIC KEY ENERGY LLC 7006 STAPOINT CT STE B WINTER PARK, FL 32792 +1 (407) 988-0273 PROJECT NAME & ADDRESS RESIDENCE 283 SW JUNE GLEN LAKE CITY, FL 32024 ALBERT COHOON SIGNATURE WITH SEAL REVISIONS DESCRIPTION DATE REV

10/25/22

SHEET NAME
STRING LAYOUT &
SIGNAGE
SHEET NUMBER

E-1

| ID | INITIAL CONDUCTOR LOCATION | FINAL CONDUCTOR LOCATION | М | IN. CONDUCTOR SIZE (AWG) | MIN. DIA CONDUIT SIZE (IN.) | # OF PARALLEL CIRCUITS | CURRENT-CARRYING CONDUCTORS IN CONDUIT | OCPD (A) | | MIN. EGC SIZE (AWG) | TEMP. | | CONDUIT FILL FACTOR | CONT. CURRENT (A) | MAX. CURRENT (A) | BASE AMP. (A) | DERATED AMP. (A) | TERM. AMP. RATING (A) | LENGTH (FT) | VOLTAGE DROP (%) |
|----|-------------------------------|--------------------------|----|-----------------------------|-----------------------------------|------------------------------|--|-------------|----|------------------------|-------|------|------------------------|----------------------|------------------------|---------------------|------------------------|-----------------------------|----------------|------------------------|
| 1 | STRING A | JUNCTION BOX | 12 | Q CABLE | N/A | 1 | 2 | N/A | 6 | BARE COPPER | 0.76 | 55°C | N/A | 13.31 | 16.64 | 30 | N/A | N/A | 60.00 | 0.54 |
| 2 | STRING B | JUNCTION BOX | 12 | Q CABLE | N/A | 1 | 2 | N/A | 6 | BARE COPPER | 0.76 | 55°C | N/A | 13.31 | 16.64 | 30 | N/A | N/A | 50.00 | 0.45 |
| 3 | JUNCTION BOX | IQ COMBINER | 10 | THWN-2 COPPER | 0.75 LTNM | 2 | 4 | 20 | 10 | THWN-2 COPPER | 0.76 | 55°C | 0.8 | 13.31 | 16.64 | 40 | 24.3 | 35 | 45.00 | 0.62 |
| 4 | IQ COMBINER | AC DISCONNECT | 8 | THWN-2 COPPER | 0.75 LTNM | 1 | 3 | N/A | 10 | THWN-2 COPPER | 0.96 | 34°C | 1 | 26.62 | 33.28 | 55 | 52.8 | 50 | 5.00 | 0.09 |
| 5 | AC DISCONNECT | MSP | 8 | THWN-2 COPPER | 0.75 LTNM | 1 | 3 | 40 | 10 | THWN-2 COPPER | 0.96 | 34°C | 1 | 26.62 | 33.28 | 55 | 52.8 | 50 | 5.00 | 0.09 |

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SIGNATURE WITH SEAL

REVISIONS DATE REV DESCRIPTION

LEGEND

(E) - EXISTING (N) - NEW

-5°C

34°C

1.0"

55°C

DESIGN TEMPERATURE SPECIFICATIONS

RECORD LOW TEMP

CONDUIT HEIGHT

AMBIENT TEMP (HIGH TEMP 2%)

CONDUCTOR TEMPERATURE RATE (ROOF)

ELECTRODE CONDUCTOR

SHEET NAME ELECTRICAL LINE

10/25/22

DIAGRAM & CALCS. SHEET NUMBER

E-2

TO UTILITY GRID (N) STRING A
— 11 Q.PEAK DUO BLK ML-G10+ 400W MODULES **A A A** Δıdı (E) BI-DIRECTIONAL UTILITY METER (E) MAIN BREAKER - 11 ENPHASE IQ8PLUS-72-2-US MICROINVERTERS TO HOUSE, 200A (N) STRING B - 11 Q.PEAK DUO BLK ML-G10+ 400W MODULES ENVOY 10A/2P OR 15A/2P 20A/2P 15A/2P - 11 ENPHASE IQ8PLUS-72-2-US MICROINVERTERS (N) JUNCTION (N) NON-FUSED AC DISCONNECT BOX [NC00000] (N) IQ COMBINER BOX TO MOUNTING 6AWG BARE STRUCTURE COPPER (E) MAIN SERVICE (N) POWER PERFECT BOX (N) BACKFEED BREAKER PANEL, 200A (E) GROUND



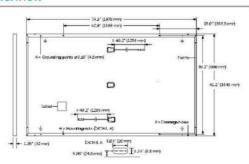
NOTE: LTNM OR EQUIVALENT TYPE CONDUIT

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| ELECTRICAL LINE DIAGRAM SCALE: NTS E-2

MECHANICAL SPECIFICATION

| Format | 74.0 in × 41.1 in × 1.26 in (including frame) (1879 mm × 1045 mm × 32 mm) |
|--------------|--|
| Weight | 48.5lbs (22.0kg) |
| Front Cover | 0.13 in (3.2mm) thermally pre-stressed glass with anti-reflection technology |
| Back Cover | Composite film |
| Frame | Black anodized aluminum |
| Cell | 6×22 monocrystalline Q.ANTUM solar half cells |
| Junction Box | $2.09-3.98$ in \times $1.26-2.36$ in \times $0.59-0.71$ in (53-101 mm \times $32-60$ mm \times $15-18$ mm), IP67, with bypass clodes |
| Cable | 4 mm² Solar cable; (+) ≥49.2 in (1250 mm), (-) ≥49.2 in (1250 mm) |
| Connector | Staubli MC4; IP68 |



ELECTRICAL CHARACTERISTICS

| PO | VER CLASS | | | 385 | 390 | 395 | 400 | 405 |
|-------|------------------------------------|------------------|--------------------------|-----------------|---------|-------|-------|-------|
| IVII | IMUM PERFORMANCE AT STANDA | RD TEST CONDITIC | NS, STC ¹ (PO | WERTOLERANCE + | 5W/-0W) | | | |
| | Power at MPPI | P _{MPP} | [W] | 385 | 390 | 395 | 400 | 405 |
| | Short Circuit Current ¹ | lsc | [A] | 11.04 | 11.07 | 11.10 | 11.14 | 11.17 |
| un n | Open Circuit Voltage ^a | Voc | [٧] | 45.19 | 45.23 | 45.27 | 45.30 | 45.34 |
| Minir | Current at MPP | lupo | [A] | 10.59 | 10.66 | 10.71 | 10,77 | 10.83 |
| 2 | Voltage at MPP | V _{MPP} | [V] | 36,36 | 36.62 | 36.88 | 37.13 | 37,39 |
| | Efficiency ^a | η | [%] | ≥19.6 | ≥19.9 | ≥20.1 | ≥20.4 | ≥20.6 |
| MIR | IMUM PERFORMANCE AT NORMA | LOPERATING CON | OTTIONS, NMC | OT ^a | | | | |
| | Power at MPP | PMPP | [W] | 288,8 | 292.6 | 296.3 | 300.1 | 303.8 |
| Ē | Short Circuit Current | lec | [A] | 8.90 | 8.92 | 8,95 | 8.97 | 9.00 |
| E | Open Circuit Voltage | Voc | [V] | 42.62 | 42.65 | 42.69 | 42.72 | 42.76 |
| Ē | Current at MPP | lupp | [A] | 8.35 | 8.41 | 8,46 | 8.51 | 8.57 |
| | Voltage at MPP | V _{MPP} | [V] | 34.59 | 34.81 | 35.03 | 35.25 | 35.46 |

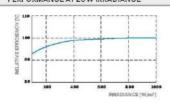
4Measurement tolerances P_{sep} ±3%; I_{sc}; V_{oc} ±5% at STC:1000 W/m², 25±2°C, AM 1.5 according to IEC 6090 4-3 * 2800 W/m², NMOT, spectrum AM 1

PERFORMANCE AT LOW IRRADIANCE



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 99.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m²)

| TEMPERATURE COEFFICIENTS | | | | | | | | |
|--|----|-------|-------|--|------|-------|------------------|--|
| Temperature Coefficient of lac | a | [%/K] | +0.04 | Temperature Coefficient of V _{cc} | β | [%/K] | -0.27 | |
| Temperature Coefficient of P _{MP} | Y. | [%/K] | -0.34 | Nominal Module Operating Temperature | NMOT | [°F] | 109±5.4 (43±3°C) | |

PROPERTIES FOR SYSTEM DESIGN

| Maximum System Voltage V ₉₇₃ | [V] | 1000 (EC)/1000 (UL) | PV module classification | Class II |
|---|-----------|----------------------------|--------------------------------------|-----------------------|
| Maximum Series Fuse Rating | [A DC] | 20 | Fire Rating based on ANSI / UL 61730 | TYPE 2 |
| Max. Design Load, Push / Pull* | [lbs/ft²] | 75 (3600 Pa) /55 (2660 Pa) | Permitted Module Temperature | -40°F up to +185°F |
| Max. Test Load, Push/PulP | [lbs/ft²] | 113 (5400Pa) /84 (4000Pa) | en Continuous Duty | (-40 °C up to +85 °C) |

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

UL 61730, CE-compilant; Guality Controlled PV - TOV Rheinland, IEC 612152018, IEC 61730-2016, U.S. Patamino. 9,893,215 (solar cells), QCPV Certification ampoing.

²See Installation Manual







| ٦ | |
|-----------|-----|
| | Hor |
| | pac |
| am 277 | - |

| | | | ₽ | 10-0 | 49.H9 | |
|----------------------|--|--------------------|----------|---------------|---------------|---------------|
| Horizontal packaging | | 48.0 in 1220 mm | | 24 pallets | 24 pallets | 32 modules |

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS America Inc.

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.g-cells.com | WEB www.q-cells.us

IQ8 and IQ8+ Microinverters

| INPUT DATA (DC) | | 108-60-2-US | 108PLUS-72-2-US | | | | |
|--|-----------------|--|---|--|--|--|--|
| Commonly used module pairings ¹ | w | 235 - 350 | 235 - 440 | | | | |
| Module compatibility | | 60-cell/120 half-cell | 60-cell/120 half-cell and 72-cell/144 half-cell | | | | |
| MPPT voltage range | ٧ | 27 – 37 | 29 - 45 | | | | |
| Operating range | ٧ | 25 - 48 | 25 - 58 | | | | |
| Min/max start voltage | ٧ | 30 / 48 | 30/58 | | | | |
| Max input DC voltage | v | 50 | 60 | | | | |
| Max DC current² [module lsc] | А | | 15 | | | | |
| Overvoltage class DC port | | | II . | | | | |
| DC port backfeed current | mA | | 0 | | | | |
| PV array configuration | | tx1 Ungrounded array; No additional DC side protection | on required; AC side protection requires max 20A per branch circuit | | | | |
| OUTPUT BATA (ACI | | 108-60-2-US | 108PLUS-72-2-US | | | | |
| Peak output power | VA | 245 | 300 | | | | |
| Max continuous output power | VA | 240 | 290 | | | | |
| Nominal (L-L) voltage/range ³ | v | 2 | 240 / 211 - 264 | | | | |
| Max continuous output current | A | 1.0 | 1.21 | | | | |
| Nominal frequency | Hz | | 60 | | | | |
| Extended frequency range | Hz | | 50 - 68 | | | | |
| Max units per 20 A (L-L) branch circu | ít ⁴ | 16 | 13 | | | | |
| Total harmonic distortion | | | <5% | | | | |
| Overvoltage class AC port | | | ш | | | | |
| AC port backfeed current | mA | | 30 | | | | |
| Power factor setting | | | 1.0 | | | | |
| Grid-tied power factor (adjustable) | | 0.85 le | ading - 0.85 lagging | | | | |
| Peak efficiency | % | 97.5 | 97.6 | | | | |
| CEC weighted efficiency | % | 97 | 97 | | | | |
| Night-time power consumption | mW | | 60 | | | | |
| MECHANICAL DATA | | | | | | | |
| Ambient temperature range | | -40°C to + | 60°C (-40°F to +140°F) | | | | |
| Relative humidity range | | 4% to | 100% (condensing) | | | | |
| DC Connector type | | | MC4 | | | | |
| Dimensions (HxWxD) | | 212 mm (8.3") x 1 | 175 mm (6.9") × 30.2 mm (1.2") | | | | |
| Weight | | 1.0 | 08 kg (2.38 lbs) | | | | |
| Cooling | | Natural | convection - no fans | | | | |
| Approved for wet locations | | | Yes | | | | |
| Acoustic noise at 1 m | | | <60 dBA | | | | |
| Pollution degree | | | PD3 | | | | |
| Enclosure | | Class II double-insulated, | Class II double-insulated, corrosion resistant polymeric enclosure | | | | |
| Environ, category / UV exposure ratin | na | NEMA | A Type 6 / outdoor | | | | |

CA Rule 21 (UL 1741-SA), UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01

This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to

(1) No enforced DC/AC ratio. See the compatibility calculator at https://link.enphase.com/module-compatibility (2) Maximum continuous input DC current is 10.6A (3) Nominal voltage range can be extended beyond nominal if required by the utility. (4) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

manufacturer's instructions.

Certifications

IQ8SP-DS-0002-01-EN-US-2021-10-19



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SIGNATURE WITH SEAL

REVISIONS

DESCRIPTION DATE REV

Drawn by: R.H.
Checked by: O.T.

Date: 10/25/22 SHEET NAME

EQUIPMENT SPECIFICATIONS

SHEET NUMBER

E-3

Enphase IQ Combiner 4/4C

| MODEL NUMBER | |
|---|--|
| Q Combiner 4 (X- Q-AM1-240-4) | IQ Combiner 4 with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANS 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 (X-IQ-AM1-240-4C) | 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 modern (CELLMODEM-M1-06-SP-05), a plug-and-play industrial-grade cell modern for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is a dequate 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 | (not included, order separately) |
| Ensemble Communications Kit COMMS-CELLMODEM-M1-06 CELLMODEM-M1-06-SP-05 CELLMODEM-M1-06-AT-05 | - Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan for Ensemble sites - 4G based LTE-M1 cellular modem with 5-year Sprint data plan - 4G based LTE-M1 cellular modem with 5-year AT&T data plan |
| Circuit Breakers BRK-10A-2-240V BRK-15A-2-240V BRK-20A-2P-240V BRK-15A-2P-240V-B BRK-20A-2P-240V-B | Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 10A, Eaton BR210 Circuit breaker, 2 pole, 15A, Eaton BR215 Circuit breaker, 2 pole, 20A, Eaton BR220 Circuit breaker, 2 pole, 15A, Eaton BR215 with hold down kit support Circuit breaker, 2 pole, 20A, Eaton BR220B with hold down kit support |
| EPLC-01 | Power line carrier (communication bridge pair), quantity-one pair |
| 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) |
| XA-ENV-PCBA-3 | Replacement IQ Gateway printed circuit board (PCB) for Combiner 4/4C |
| X-IQ-NA-HD-125A | Hold down kit for Eaton circuit breaker with screws. |
| ELECTRICAL SPECIFICATIONS | |
| Rating | Continuous duty |
| System voltage | 120/240 VAC, 60 Hz |
| Eaton BR series busbar rating | 125 A |
| Max. continuous current rating | 65A |
| 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 Distributed Generation (DG) breakers only (not included) |
| Max. total branch circuit breaker rating (input) | 80A of distributed generation / 95A with IQ Gateway breaker included |
| Production metering CT | 200 A solid core pre-installed and wired to IQ Gateway |
| Consumption monitoring CT (CT-200-SPLIT) | A pair of 200 A split core current transformers |
| MECHANICAL DATA | |
| Dimensions (WxHxD) | 37.5 x 49.5 x 16.8 cm (14.75" x 19.5" x 6.63"). Height is 21.06" (53.5 cm) with mounting brackets. |
| Weight | 7.5 kg (16.5 lbs) |
| Ambient temperature range | -40° C to +46° C (-40° to 115° F) |
| Cooling | Natural convection, plus heat shield |
| Enclosure environmental rating | Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction |
| Wire sizes | 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors 60 A breaker branch input: 4 to 1/0 AWG copper conductors Main lug combined output: 10 to 2/0 AWG copper conductors Neutral and ground: 14 to 1/0 copper conductors Always follow local code requirements for conductor sizing. |
| Altitude | To 2000 meters (6,560 feet) |
| INTERNET CONNECTION OPTIONS | |
| Integrated Wi-Fi | 802.11b/g/n |
| Cellular | CELLMODEM-M1-06-SP-05, CELLMODEM-M1-06-AT-05 (4G based LTE-M1 cellular modern). Note that an Enphase Mobile Connect cellular modern is required for all Ensemble installations. |
| Ethernet | Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included) |
| COMPLIANCE | |
| Compliance, IQ Combiner | UL 1741, CAN/CSA C22.2 No. 107.1, 47 CFR, Part 15, Class B, ICES 003 Production metering: ANSI C12.20 accuracy class 0.5 (PV production) Consumption metering: accuracy class 2.5 |
| 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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⊖ ENPHASE.

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