

SCOPE OF WORK:

TO INSTALL A ROOF MOUNTED SOLAR PHOTOVOLTAIC SYSTEM AT THE OWNER RESIDENCE LOCATED AT 238 SW CROSSBOW PL, LAKE CITY, FL 32024.

SYSTEM DC RATING: 9.60 KWDC SYSTEM AC RATING: 6.97 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.

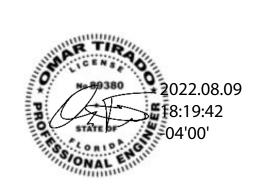
SHEET INDEX					
CS-0	COVER SHEET & BOM				
E-1	STRING LAYOUT & SIGNAGE				
E-2	ELECTRICAL DIAGRAM & CALCS.				
E-3+	EQUIPMENT SPECIFICATIONS				

GOVERNING CODES

2018 NFPA 1 (FIRE CODE) 2017 NATIONAL ELECTRICAL CODE 2020 FLORIDA BUILDING CODE (7TH EDITION)

AUTHORITY HAVING JURISDICTION (AHJ): COLUMBIA COUNTY

BILL OF MATERIALS							
EQUIPMENT QTY DESCRIPTION							
SOLAR PV MODULE	24	Q.PEAK DUO BLK ML-G10+ 400W					
MICROINVERTER	24	ENPHASE IQ8PLUS-72-2-US					
JUNCTION BOX	1	JUNCTION BOX, NEMA 3R, UL LISTED					
COMBINER BOX	1	ENPHASE IQ COMBINER 4/4C W/ IQ ENVOY (X-IQ-AM1-240-4)					
AC DISCONNECT	1	FUSED AC DISCONNECT, 240V, NEMA 3R, UL LISTED					
POWER PERFECT BOX	1	(ES1PN), 120V/240V, NEMA 3X					



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ATLANTIC KEY ENERGY LLC 7006 STAPOINT CT STE B WINTER PARK, FL 32792

+1 (407) 988-0273
PROJECT NAME & ADDRESS

JOY THOMAS RESIDENCE 238 SW CROSSBOW PL LAKE CITY, FL 32024

SIGNATURE WITH SEAL

REVISIONS

DESCRIPTION DATE REV

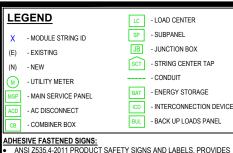
Drawn by:

Checked by: O.T.

SHEET NAME

COVER SHEET & BOM
SHEET NUMBER

CS-0



GUIDELINES FOR SUITABLE FONT SIZES, WORDS, COLORS, SYMBOLS, AND LOCATION REQUIREMENTS FOR LABELS. NEC 110.21(B)(1). THE LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND

THE ENVIRONMENT INVOLVED. NEC 110.21(B)(3).

ADHESIVE FASTENED SIGNS MAY BE ACCEPTABLE IF PROPERLY ADHERED. VINYL SIGNS SHALL BE WEATHER RESISTANT.

A WARNING A FLECTRIC SHOCK HAZARD

ENCLOSURES/ AC DISCONNECT/ MAIN SERVICE PANEL RMINALS ON BOTH THE LINE AND OAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

EMERGENCY RESPONDER

SOLAR PV SYSTEM EQUIPPED OWN THE ENTIRE PY SYSTEM

SHALL BE REFLECTIVE, WITH ALL LETTERS CAPITALIZED AND HAVING A WHITE ON RED BACKGROUND.

RNING: PHOTOVOLTA POWER SOURCE

29.0

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

1 WARNING 🕸 DUAL POWER SOURCE

LABEL LOCATION:
RAPID SHUTDOWN (AC DISCONNECT)
PER CODE: NEC 690.56 (C)(1) &
NFPA1 11.12.2.1.1.1.1, 11.12.2.1.4 MINIMUM HEIGHT OF 3/8 IN. (9.5 MM), IN

LABEL LOCATION: CONDUIT/ RACEWAY/ ENCLOSURES/ COMBINER BOX/ AC DISCONNECT PER CODE: NEC2017, 690.31(G)(3)(4)

LABEL LOCATION: AC DISCONNECT/ BREAKER/ POINTS OF CONNECTION PER CODE: NEC2017, 690.13(B)

AC DISCONNECT
PER CODE: NEC2017, 690.53

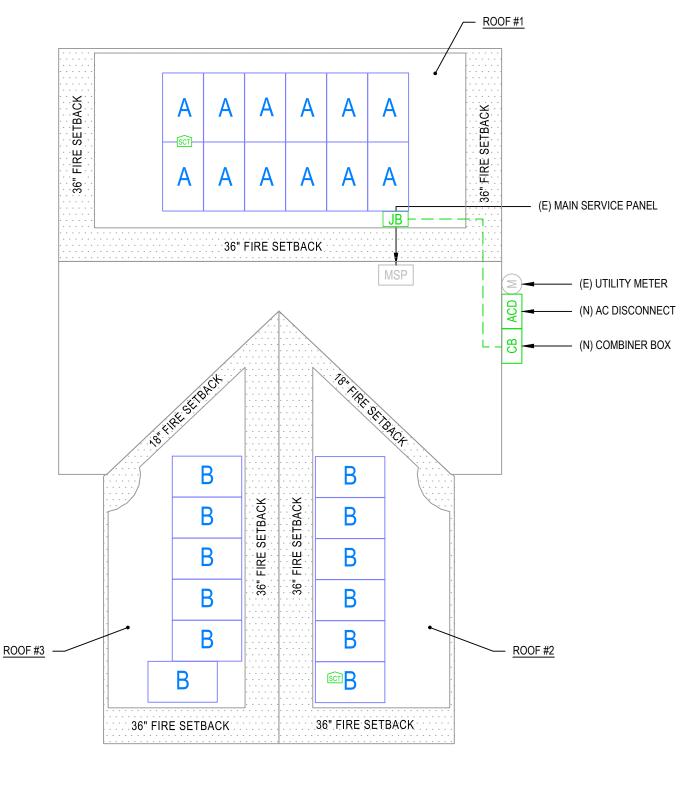
(AC DISCONNECT) PER CODE: NEC 690.58 (C)(3)

LABEL LOCATION: POINT OF INTERCONNECTION PER CODE: NEC 2017, 705.12(B)



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SW CROSSBOW PL FRONT OF RESIDENCE



BACK OF RESIDENCE

ROOF PLAN WITH STRING LAYOUT

SOLAR ATLANTIC KEY ENERGY LLC 7006 STAPOINT CT STE B WINTER PARK, FL 32792 +1 (407) 988-0273 PROJECT NAME & ADDRESS RESIDENCE 238 SW CROSSBOW PL LAKE CITY, FL 32024 JOY THOMAS SIGNATURE WITH SEAL

REVIS	SIONS	
DESCRIPTION	DATE	REV
Drawn by:		N.R.
		ο τ

8/2/22

SHEET NAME STRING LAYOUT & **SIGNAGE**

> SHEET NUMBER E-1

E-1

D	INITIAL CONDUCTOR LOCATION	FINAL CONDUCTOR LOCATION	MI	IN. CONDUCTOR SIZE (AWG)	MIN. DIA CONDUIT SIZE (IN.)	# OF PARALLEL CIRCUITS	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCPD (A)		MIN. EGC SIZE (AWG)	TEMP. FAC		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	14.52	18.15	30	N/A	N/A	45.00	0.44
2	STRING B	JUNCTION BOX	12	Q CABLE	N/A	1	2	N/A	6	BARE COPPER	0.76	55°C	N/A	14.52	18.15	30	N/A	N/A	75.00	0.73
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	14.52	18.15	40	24.3	35	30.00	0.45
4	IQ COMBINER	AC DISCONNECT	8	THWN-2 COPPER	0.75 LTNM	1	3	40	10	THWN-2 COPPER	0.96	34°C	1	29.04	36.30	55	52.8	50	5.00	0.09
5	AC DISCONNECT	MSP	6	THWN-2 COPPER	0.75 LTNM	1	3	N/A	-	-	0.96	34°C	1	29.04	36.30	75	72.0	65	20.00	0.24

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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%)

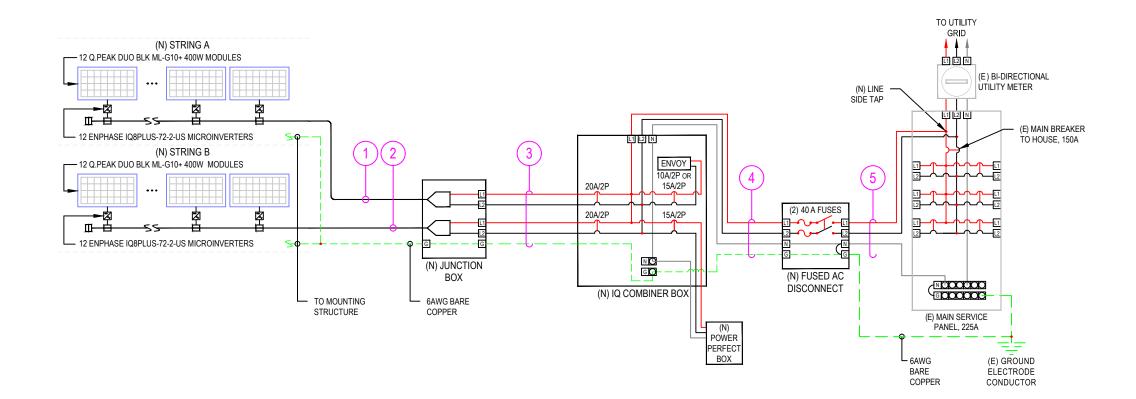
CONDUCTOR TEMPERATURE RATE (ROOF)

SHEET NAME **ELECTRICAL LINE**

8/2/22

DIAGRAM & CALCS. SHEET NUMBER

E-2





NOTE: LTNM OR EQUIVALENT TYPE CONDUIT

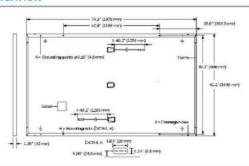
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| ELECTRICAL LINE DIAGRAM SCALE: NTS

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	4mm² Solar cable; (+) ≥49.2 in (1250 mm), (-) ≥49.2 in (1250 mm)
Connector	Staubli MC4; IP68

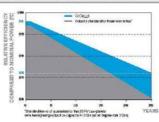


ELECTRICAL CHARACTERISTICS

PO	WER CLASS			385	390	395	400	405
IVII	IIMUM PERFORMANCE AT STANDA	RD TEST CONDITIC	NS, STC ¹ (PO	WER TOLERANCE +	5W/-0W)			
	Power at MPPI	P _{MPP}	[W]	385	390	395	400	405
-	Short Circuit Current!	lsc	[A]	11.04	11.07	11.10	11.14	11.17
nu.	Open Circuit Voltage ^a	Voc	[V]	45.19	45.23	45.27	45.30	45.34
Minir	Current at MPP	lupp	[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
MH	IIMUM PERFORMANCE AT NORMA	LOPERATING CON	OTTONS, NMC	T ²				
	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
Ξ	Current at MPP	lupp	[A]	8.35	8.41	8,46	8.51	8.57
	Voltage at MPP	V _{MPP}	[٧]	34.59	34.81	35.03	35.25	35.46

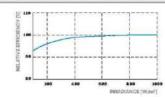
Measurement tolerances P_{tore} ± 3%; I_{sc}; V_{oc} ± 5% at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 6090 4-3 • ²800 W/m², NIMOT, spectrum AM 1.5

Q CELLS PERFORMANCE WARRANTY PERFORMANCE AT LOW IRRADIANCE



At least 98% of nominal power during first year. Thereafter max, 0.5% degradation per year. At least 98,5% 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



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 ₀₀	β	[%/K]	-0.27
Temperature Coefficient of P _{MP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V ₃₁₅	[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)
² See Installation Manual				

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

UL 61/30, CE-compilent Gwilty Controlled PV - TÜV Rheinland, IEC 61/215/2016, IEC 61/30/2016, U.S. Patent No. 9,893,215 (solar cella), QCPV Certification angoing







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Horizontal packaging	76,4 in 1940 mm	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

Hanwha Q CELLS America Inc.

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

IO8 and IO8+ Microinverters

INPUT DATA (BC)		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	٧	50	60				
Max DC current ² [module lsc]	А		15				
Overvoltage class DC port			1				
DC port backfeed current	mA		0				
PV array configuration		tx1 Ungrounded array; No additional DC side protection	n required; AC side protection requires max 20A per branch circuit				
DUTPUT 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	٧	2	40 / 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	it ⁴	16	13				
Total harmonic distortion			<5%				
Overvoltage class AC port			H .				
AC port backfeed current	mA		30				
Power factor setting			1.0				
Grid-tied power factor (adjustable)		0.85 lea	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 +6	60°C (-40°F to +140°F)				
Relative humidity range		4% to 1	100% (condensing)				
DC Connector type			MC4				
Dimensions (HxWxD)		212 mm (8.3") x 1	75 mm (6.9") x 30.2 mm (1.2")				
Weight		1.0	98 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, o	corrosion resistant polymeric enclosure				
Environ. category / UV exposure ratin	ig	NEMA	Type 6 / outdoor				
COMPLIANCE							
		CA Rule 21 (UL 1741-SA), UL 62109-1, UL1741/IEEE1547, FCC	C Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-0				
Certifications			nt and conforms with NEC 2014, NEC 2017, and NEC 2020 section 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.

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



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Drawn by: O.T. Checked by: 8/2/22

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 (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 (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 (CELL MODEM-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 adequate cellular service in the installation area.) includes a silver solar shield to match the IQ Battery and IQ System Controller and to deflect heat.
ACCESSORIES AND REPLACEMENT PARTS	(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 46 based LTE-M1 cellular modern with 5-year Sprint data plan 46 based LTE-M1 cellular modern 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) Production metering CT	80A of distributed generation / 95A with IQ Gateway breaker included 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	A pail of 200 A spirit core current transformers
	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.
Dimensions (WxHxD)	
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 modem). Note that an Emphase Mobile Connect cellular modem 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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SHEET NAME **EQUIPMENT**

⊖ ENPHASE.

SPECIFICATIONS SHEET NUMBER