

### SCOPE OF WORK:

TO INSTALL A ROOF MOUNTED SOLAR PHOTOVOLTAIC SYSTEM AT THE OWNER RESIDENCE LOCATED AT 268 SOUTHEAST MARSH TERRACE, LAKE CITY, FL 32025.

SYSTEM DC RATING: 4.40 KWDC SYSTEM AC RATING: 3.19 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
- 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							
2017 NEC							
2018 NFPA / 2020 FFPC							
2020 FBC							
2018 IRC							
AUTHORITY HAVING JURISDICTION (AHJ): CITY OF LAKE CITY							

	BILL OF MATERIALS							
EQUIPMENT	QTY	DESCRIPTION						
SOLAR PV MODULE	11	Q CELLS Q.PEAK DUO BLK ML-G10+ 400						
MICROINVERTER	11	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	60A NON-FUSED AC DISCONNECT, 240V, NEMA 3R, UL LISTED						



ATLANTIC KEY ENERGY LLC

SOUTHEAST MARSH TERRACE LAKE CITY, FL 32025 PROJECT # P-0070290 MARY EAST RESIDENCE LAKE CITY, 268

SIGNATURE WITH SEAL

REVISIONS

SHEET NAME **COVER SHEET & BOM** 

SHEET NUMBER

CS-0

DATE

REV

03/07/2023

DESCRIPTION

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- 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.
- ALL LABELS AND MARKINGS FOR PHOTOVOLTAIC SYSTEMS WILL BE REFLECTIVE AND MEET ALL REQUIREMENTS.

## $ext{ ilde{1}}$ WARNING $extstyle{2}$ ELECTRIC SHOCK HAZARD

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

EMERGENCY RESPONDER SOLAR PV SYSTEM EQUIPPED

ED AC OUTPUT CURRENT 13.3 A
INAL OPERATING AC VOLTAGE 240 V

**RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM** 

1 WARNING A DUAL POWER SOURCE

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

! WARNING!

LABEL LOCATION: COMBINER BOX/ EMT ENCLOSURES/ AC DISCONNECT/ PER CODE: NEC 2017, 690.13(B)

LABEL LOCATION: RAPID SHUTDOWN (AC DISCONNECT) PER CODE: NEC 690.56 (C)(1) & NFPA1 11.12.2.1.4.1.1.1.1.1.2.2.1.4 SHALL BE REFLECTIVE, WITH ALL LETTERS CAPITALIZED AND HAVING A MINIMUM HEIGHT OF 3/8 IN. (9.5 MM), IN WHITE ON RED BACKGROUND.

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)

PER CODE: NEC2017, 690.54

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

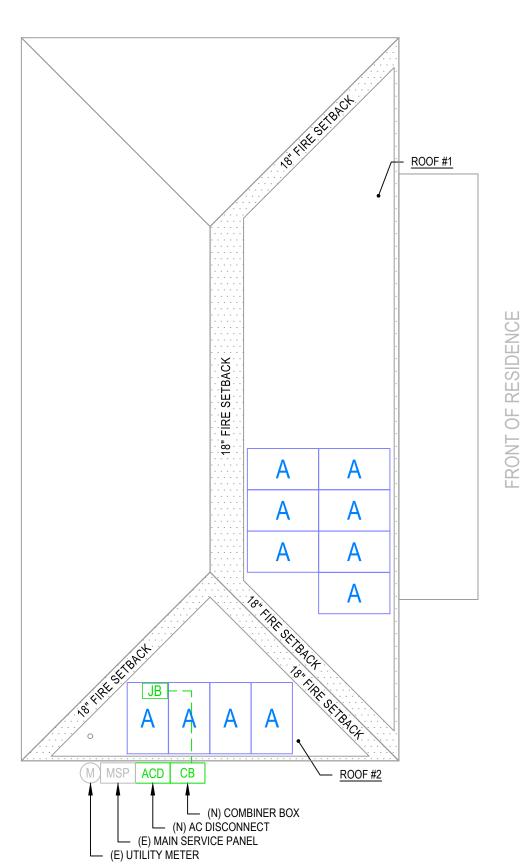
LABEL LOCATION:
POINT OF INTERCONNECTION
PER CODE: NEC 2017, 705.12(B)

LABEL LOCATION:
POINT-OF-INTERCONNECTION OR AT MAIN SERVICE DISCONNECT (MSP)

PER CODE: NEC 705.12(B)(2)(3)(b)



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RESIDENCE

9

BACK



ATLANTIC KEY ENERGY LLC 12600 CHALLENGER PARKWAY SUITE 200 ORLANDO, FL 32826 1 (407) 988-0273 SOUTHEAST MARSH TERRACE PROJECT # P-0070290 LAKE CITY, FL 3202 MARY EAST RESIDENCE 268 SIGNATURE WITH SEAL REVISIONS DESCRIPTION DATE REV Drawn by: 03/07/2023 SHEET NAME STRING LAYOUT & **SIGNAGE** SHEET NUMBER

E-1

ROOF PLAN WITH STRING LAYOUT

E-1

ID	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	0.71	56°C	N/A	13.31	16.64	30	N/A	N/A	50.00	0.45
2	JUNCTION BOX	COMBINER BOX	10	THWN-2 COPPER	0.75 LTNM	1	2	20	10	THWN-2 COPPER	0.71	56°C	1	13.31	16.64	40	28.4	35	20.00	0.28
3	COMBINER BOX	AC DISCONNECT	10	THWN-2 COPPER	0.75 LTNM	1	3	N/A	10	THWN-2 COPPER	0.96	35°C	1	13.31	16.64	40	38.4	35	5.00	0.07
4	AC DISCONNECT	MSP	10	THWN-2 COPPER	0.75 LTNM	1	3	20	10	THWN-2 COPPER	0.96	35°C	1	13.31	16.64	40	38.4	35	5.00	0.07



ATLANTIC KEY ENERGY LLC 12600 CHALLENGER PARKWAY

SUITE 200 ORLANDO, FL 32826 1 (407) 988-0273



PROJECT # P-0070290 268 SOUTHEAST MARSH TERRACE LAKE CITY, FL 32025 MARY EAST RESIDENCE

SIGNATURE WITH SEAL

REVIS	SIONS	
DESCRIPTION	DATE	REV
Drawn by:		A.A.
Date:	(	3/07/2023

SHEET NAME

**ELECTRICAL LINE DIAGRAM & CALCS** 

SHEET NUMBER E-2

L1 L2 N (E) BI-DIRECTIONAL UTILITY METER (E) MAIN BREAKER TO HOUSE, 200A (N) STRING A -- 11 Q CELLS Q.PEAK DUO BLK ML-G10+ 400 MODULES ENVOY 10A/2P OR 15A/2P 20A/2P — 11 ENPHASE IQ8PLUS-72-2-US MICROINVERTERS (N) JUNCTION (N) NON-FUSED AC DISCONNECT BOX (N) IQ COMBINER BOX TO MOUNTING 6AWG BARE STRUCTURE COPPER (E) MAIN SERVICE (N) BACKFEED BREAKER PANEL, 200A (E) GROUND ELECTRODE CONDUCTOR



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**| ELECTRICAL LINE DIAGRAM** E-2

NOTE:

1. LTNM OR EQUIVALENT TYPE CONDUIT (E) - EXISTING (N) - NEW

TO UTILITY GRID

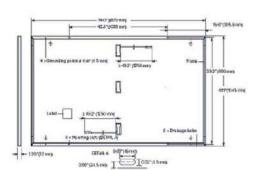
DESIGN TEMPERATURE SPECIFICATIONS						
RECORD LOW TEMP	-6°C					
AMBIENT TEMP. (HIGH TEMP. 2%)	35°C					
CONDUIT HEIGHT	1.0"					
CONDUCTOR TEMP. RATE (ROOF)	56°C					

**LEGEND** 

# Q.PEAK DUO BLK ML-G10+ SERIES

### ■ Mechanical Specification

Format	74.0 in × 413 in × 1.26 in (including frame) (1879 inm × 1045 mm × 32 mm)
Weight	48.5 lbs (22.0 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anadised aluminium
Cell	6 × 22 monocrystalline QLANTUM solar half cells
Junction box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (S3401 inm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 49.2 in (1250 mm), (-) ≥ 49.2 in (1250 mm)
Connector	Staubii MC4; IPS8



### ■ Electrical Characteristics

_								
P	OWER CLASS			385	390	395	400	405
141	NIMUM PERFORMANCE AT STANDARD	TEST CONDITIONS, ST	C! (POWER TOLERA	NCE+5W/-OW)				
	Power at MPP <sup>4</sup>	Prove	[W]	385	390	395	400	405
	Short Circuit Current <sup>1</sup>	Isc	(A)	11.04	11.07	11.10	11.14	11.17
1	Open Circuit Voltage <sup>1</sup>	Voc	(V)	45.19	45.23	45.27	45.3	45.34
Ē	Current at MPP	Lygne	[A]	10.59	10.65	10.71	10.77	10,83
2	Voltage at MPP	Vser	[V]	36,36	36.62	36,88	37,13	37.39
	Efficiency	n	(9c)	>19.6	>40.6	>201	>20.4	>206

### MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NIMOT?

	Power at MPP	Page	[W]	288.8	292.6	296,3	3001	303.8
E	Short Circuit Current	l <sub>sc</sub>	[A]	8,90	8.92	8.95	8.97	9.00
Ĕ	Open Circuit Voltage	Voc	(V)	42.62	42.65	42.69	42.72	42.76
ž	Current at MPP	lupp	[A]	8.35	8.41	8.46	8.51	8.57
	Voltage at MPP	V <sub>MP</sub>	[V]	34.59	34.81	35.03	35.25	35.46

### **Qcells PERFORMANCE WARRANTY**

At least 98 % of nominal power At least S6% of nominal power during first year. Thereafter mux 0.5% degradation per year. At least 33.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warrantes in accordance with the warranty terms of the Qcells sales organisation of your respective

"Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (Fatherary 2021)

PERFORMANCE AT LOW IRRADIANCE

Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000Wm²).

TEMPERATURE COEFFICIENTS			
Temperature Coefficient of I <sub>cr</sub>	a	[%/K]	

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I <sub>sc</sub>	а	[%/K]	+0.04	Temperature Coefficient of $V_{\infty}$	β	[%/K]	-0.27
Temperature Coefficient of Purp	Y	[%/K]	-0.34	Naminal Module Operating Temperature	NMOT	(°F)	109±5.4

### ■ Properties for System Design

Maximum System Voltage	Vovs	[M]	1000 (IEC)/1000 (UL)	PV module classification	Class II	
Maximum Series Fuse Rating		[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2	
		[lbs/ff <sup>2</sup> ]	75 (3600 Pa) / 55 (2660 Pa)	Permitted Medule Temperature	-40°F up to +185°F (-40°C up to +85°C)	
		Tibe / (02)	113 (5400 Pa) / 84 (4000 Pa)	on Cantinuous Duty		

See Installation Manual

### Qualifications and Certificates

UL 61790, CE-compliant, Quality Controlled PV - TOV Sheinland, IEC 61215/2016, IEC 61730, 2016, U.S. Patent No. 9,893,215 (soler cells),









*<u>ocells</u>* 

# IQ8 Series Microinverters

INPUT DATA (DC)		108-60-2-US	108PLUS-72-2-US	108M-72-2-US	108A-72-2-US	108H-240-72-2-US	108H-208-72-2-US	
Commonly used module pairings <sup>2</sup>	W	235 - 350	235 - 440	260 - 460	295 - 500	320 - 540+	295 - 500+	
Module compatibility		60-cell/120 half-cell	6	0-cell/120 half-cell, 6	6-cell/132 half-cell	and 72-cell/144 half-ce	ж	
MPPT voltage range	у	27 - 37	29 - 45	33-45	36 - 45	38 - 45	38 - 45	
Operating range	y	25 - 48			25 - 58			
Min/max start voltage	٧	30 / 48			30 / 58			
Max input DC voltage	٧	50			60			
Max DC current <sup>a</sup> [module lsc]	A			1	5			
Overvoltage class DC port				1	i			
DC port backfeed current	mA	0						
PV array configuration		IxI Ungrounded a	array; No additional DC	O side protection requ	ired; AC side protect	ion requires max 20A p	er branch circuit	
OUTPUT DATA (AC)		108-60-2-05	IQBPLUS-72-2-US	108M-72-2-US	108A-72-2-US	198H-240-72-2-US	198H-208-72-2-US	
Peak output power	VA	245	300	330	366	384	366	
Max continuous output power	VA	240	290	325	349	380	360	
Nominal (L-L) voltage/range4	γ			240 / 211 - 264			208 / 183 - 250	
Max continuous output current	A	1.0	1.21	1.35	1.45	1.58	1.73	
Nominal frequency	Hz			6	o			
Extended frequency range	Hz			50	- 68			
AC short circuit fault current over 3 cycles	Arms			2			4.4	
Max units per 20 A (L-L.) branch circuit <sup>5</sup>		16	13	11	11	10	9	
Total harmonic distortion				<b>&lt;</b> !	5%			
Overvoltage class AC port				1	п			
AC port backfeed current	mA			3	0			
Power factor setting				1.	o			
Grid-tied power factor (adjustable)				0.85 leading	- 0.85 lagging			
Peak efficiency	%	97.5	97.6	97.6	97.6	97.6	97.4	
CEC weighted efficiency	%	97	97	97	97.5	97	97	
Night-time power consumption	mW			6	o			
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				M	04			
Dimensions (HxWxD)			2	212 mm (8.3°°) x 175 mn	ı (6.9°°) x 30.2 mm (1.3	2")		
Weight				1.08 kg (	2.38 lbs)			
Cooling				Natural conve	ction – no fans			
Approved for wet locations				Y	es			
Pollution degree				PI	03			
Enclosure		Class II double-insulated, corrosion resistant polymeric enclosure						
Environ. category / UV exposure rating				NEMA Type	6 / outdoor			
COMPLIANCE								
		CA Rule 21 (UL 1741-5	SA), UL 62109-1, UL174	I/IEEE1547, FCC Part	15 Class B, ICES-006	03 Class B, CAN/CSA-	C22.2 NO. 107.1-01	
Certifications			18 Rule 64-218 Rapid			2014, NEC 2017, and NE onductors, when instal		

(1) The IQ8H-208 variant will be operating in grid-tied mode only at 208V AC. (2) No enforced DC/AC ratio. See the compatibility calculator at https://link.enphase.com/module-compatibility (3) Maximum continuous input DC current is 10.6A (4) Nominal voltage range can be extended beyond nominal if required by the utility. (5) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

IQ8SE-DS-0001-01-EN-US-2022-03-17

ATLANTIC KEY ENERGY LLC 12600 CHALLENGER PARKWAY

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MARY EAST
RESIDENCE
PROJECT # P-0070290
8 SOUTHEAST MARSH TERRACE
LAKE CITY, FL 32025 268

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REVISIONS DESCRIPTION DATE REV

03/07/2023

SHEET NAME **EQUIPMENT SPECIFICATIONS** 

SHEET NUMBER

E-3

# Enphase IQ Combiner 4/4C

MODEL NUMBER					
IQ Combiner 4 (X IQ-AM1 240-4)	Q Combiner 4 with Emphase  Q Gateway printed circuit board for integrated revenue grade PV production metering (ANS 0.12.20 +/-0.5%) and consumption monitoring (+/-2.5%). Includes a silver solar shield to match the  Q Battery system and  Q 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-MT-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	<ul> <li>Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan for Ensemble sites</li> <li>40 based LTE-M1 cellular modern with 5-year Sprint data plan</li> <li>46 based LTE-M1 cellular modern with 5-year AT&amp;T data plan</li> </ul>				
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 BR2158 with hold down kit support Circuit breaker, 2 pole, 20A, Eaton BR2208 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				
Earon 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)	89A 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° Cto +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 fug 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	892.11b/g/n				
Cellular	CELLMODEM-M1-D6-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, Q 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, Q Gateway	UL 60601-1/CANCSA 22.2 No. 61010-1				

To learn more about Enphase offerings, visit enphase.com
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**⊖** ENPHASE.

SHEET NAME **EQUIPMENT** 

**SPECIFICATIONS** SHEET NUMBER

E-4