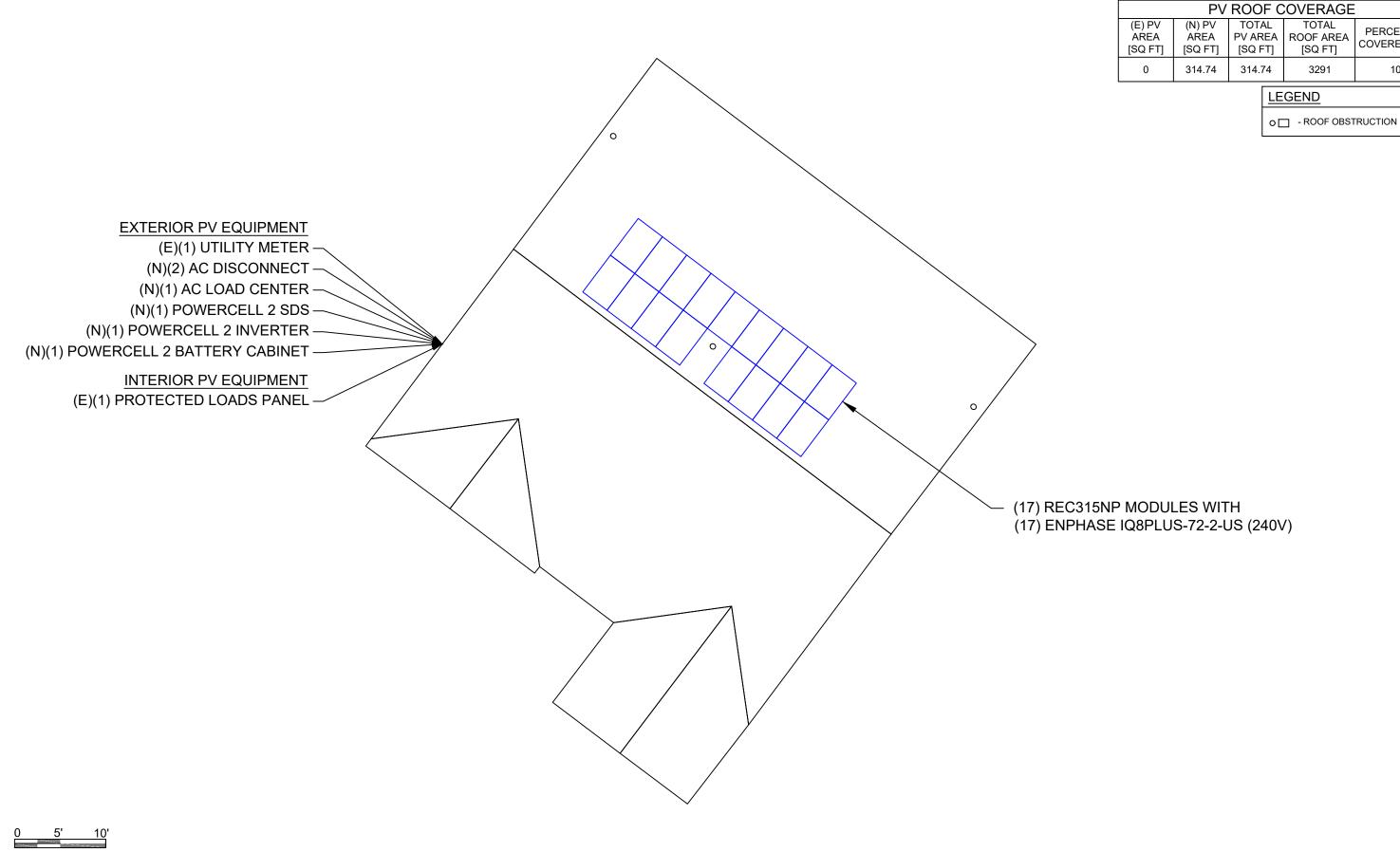
SCOPE OF WORK GOVERNING CODES SITE PLAN INSTALL A ROOF-MOUNTED PV SYSTEM: ALL WORK TO COMPLY WITH: • 2018 INTERNATIONAL BUILDING CODE • (17) REC315NP MODULES • 2018 INTERNATIONAL RESIDENTIAL CODE • (17) ENPHASE IQ8PLUS-72-2-US (240V) • 2017 NATIONAL ELECTRICAL CODE • (01) ENPHASE COMBINER 4 • 2013 INTERNATIONAL FIRE CODE • (01) POWERCELL 2 SDS • (01) POWERCELL 2 BATTERY CABINET • (01) POWERCELL 2 INVERTER • (02) AC DISCONNECT TOTAL PV SIZE: 5.36KW DC, 4.930KW CEC AC **TABLE OF CONTENTS GENERAL NOTES** • ALL WORK SHALL CONFORM TO APPLICABLE BUILDING, **COVER SHEET ROOF PLAN & MODULES** ELECTRICAL CODE AND ANY LOCALLY ADOPTED ORDINANCES. PV-2A ROOF, MODULES & ATTACHMENT DETAILS • DRAWINGS ARE DIAGRAMMATIC, SITE CONDITIONS SHALL PV-3 **ELEVATION PLAN** PREVAIL. IF NO SCALE IS GIVEN, DRAWINGS ARE NOT TO PV-3A STRINGING PAGE SCALE. ALL DIMENSIONS SHALL BE VERIFIED BY THE SINGLE-LINE DIAGRAM CONTRACTOR IN THE FIELD UPON COMMENCEMENT OF PV-4A DESIGN TABLES CONSTRUCTION. PV-5 LABELS & PLACARD • ALL CONDUIT AND WIRE RUNS ARE DIAGRAMMATIC, SUBJECT PV-6+ EQUIPMENT DATASHEETS TO FIELD CONDITIONS ROUTING OF RACEWAYS SHALL BE PV-15 MAPPING SHEET FINALIZED BY THE CONTRACTOR. IF THE DISTANCES FOR WIRE RUNS ARE DIFFERENT THAN AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE DESIGN TEAM TO VALIDATE THE WIRE SIZE. • ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A **AERIAL PHOTO** RECOGNIZED TESTING LABORATORY AND INSTALLED PER THE LISTING AND MANUFACTURER'S REQUIREMENTS. • ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH REQUIRED ACCESS AND WORKING CLEARANCES PER CEC ARTICLE 110. • ALL NEW MAIN SERVICE PANELS AND SUBPANELS WILL HAVE APPROPRIATE FIELD IDENTIFICATION PER CEC 408.4. • ALL EQUIPMENT WILL BE INSTALLED WHERE IT IS NOT EXPOSED TO PHYSICAL DAMAGE PER CEC110.27(B). SITE DETAILS **ASHRAE MIN TEMP** -12°C **ASHRAE 2% HIGH TEMP** 34°C **BUILDING OCCUPANCY** R-3 TYPE OF CONSTRUCTION V-B SPRINKLERS SYSTEM PER NFPA 13D NO # OF STORIES WIND SPEED (ASCE 7-10) 115 MPH WIND EXPOSURE В **RISK CATEGORY GROUND SNOW LOAD 15 LBS** SQUARE FOOTAGE 2115 SQ FT **UTILITY PROVIDER DUKE ENERGY** NC GC #76615 PREPARED BY: SCALE: 1/40" = 1'-0" HARNETT COUNTY PATRICIA FULLER **RENU ENERGY SOLUTIONS, LLC** PV-1 **RENU ENERGY SOLUTIONS** NC ELE #U.34519 LEVI JOHNSON 801 PRESSLEY ROAD, SUITE 100 SHEET SIZE: 11" x 17" 0652-05-6248.000 40 TARLESTON DR **COVER** CHARLOTTE, NORTH CAROLINA, 28217 FUQUAY, NC 27526 SHEET 704-525-6767 | RENUENERGYSOLUTIONS.COM TEMPLATE V2.0 DATE: 09/08/2025







801 PRESSLEY ROAD, SUITE 100 CHARLOTTE, NORTH CAROLINA, 28217 704-525-6767 | RENUENERGYSOLUTIONS.COM

NC GC #76615 NC ELE #U.34519 PREPARED BY: RENU ENERGY SOLUTIONS LEVI JOHNSON

CALE: 1/10" = 1'-0"	AHJ:	HARNETT COUNTY
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PATRICIA FULLER

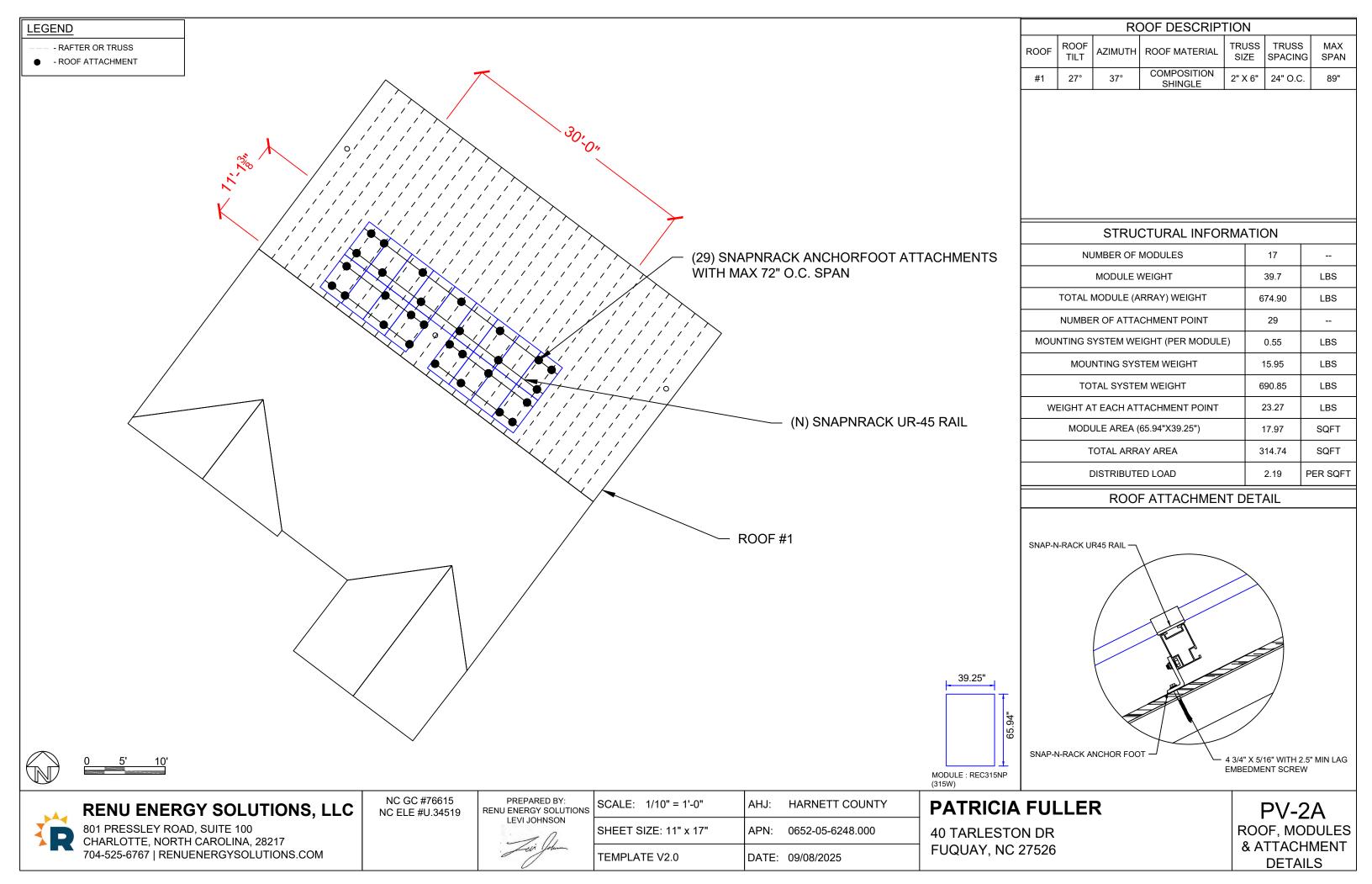
40 TARLESTON DR FUQUAY, NC 27526 PV-2

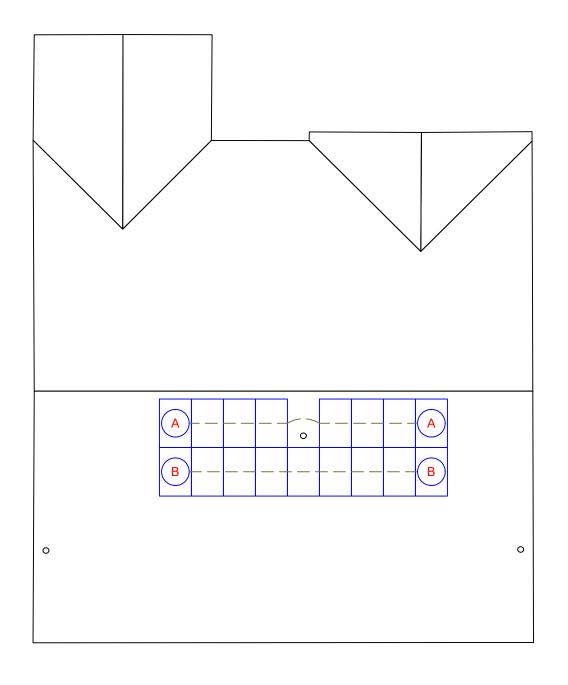
PERCENTAGE

COVERED BY PV

10%

ROOF PLAN & MODULES











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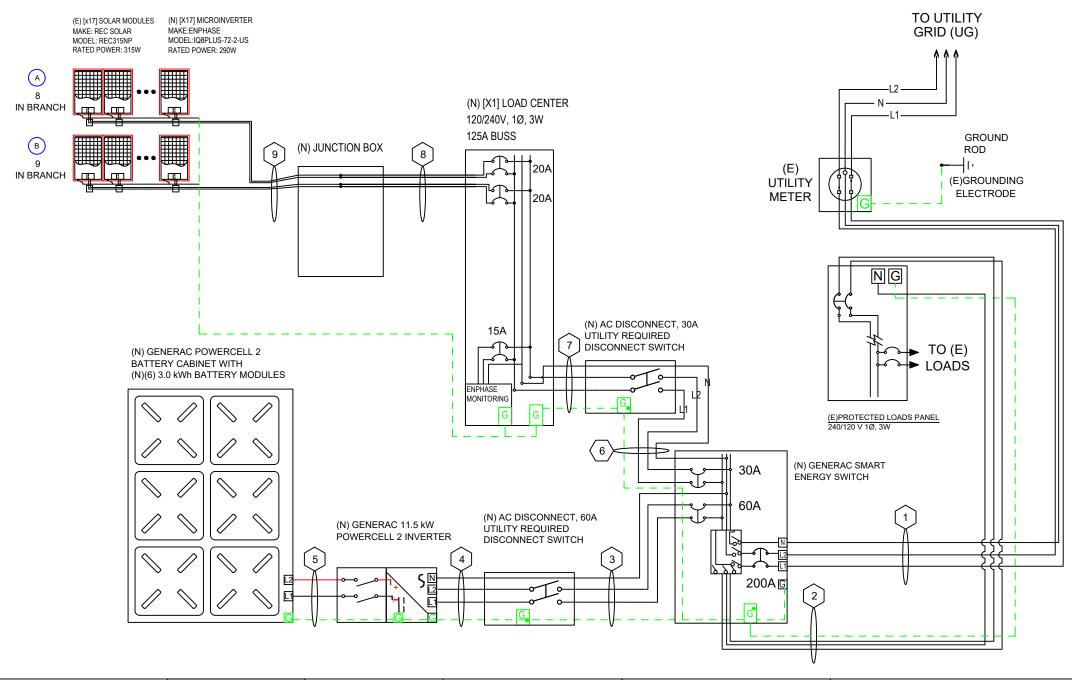
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PV-3A STRINGING PAGE

ID	TYPICAL	CONDUCTOR	NEUTRAL	EGC	CONDUIT	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCPD	TEMP. CORR. FACTOR	CONDUIT FILL FACTOR	CONT. CURRENT	MAX CURRENT (125%)	BASE AMP.	DERATED AMP.	TERM TEMP. RATING	AMP. @ TERMINAL
1	1	4/0 AWG XHHW, ALUMINUM	4/0 AWG XHHW, ALUMINUM	N/A	2" DIA	2	200A	0.96 (35°C)	1	-	200.0A	205A	196.8A	75°C	180A
2	1	4/0 AWG XHHW, ALUMINUM	4/0 AWG XHHW, ALUMINUM	4 AWG BARE, ALUMINUM	2" DIA	2	N/A	0.96 (35°C)	1	-	200.0A	205A	196.8A	75°C	180A
3	1	6 AWG THHN, COPPER	6 AWG THHN, COPPER	10 AWG THHN, COPPER	1" DIA	2	60A	0.96 (35°C)	1	48.0A	60A	75A	72A	75°C	65A
4	1	6 AWG THHN, COPPER	6 AWG THHN, COPPER	10 AWG THHN, COPPER	1" DIA	2	N/A	0.96 (35°C)	1	48.0A	60A	75A	72A	75°C	65A
5	1	8 AWG THHN, COPPER	8 AWG THHN, COPPER	10 AWG THHN, COPPER	0.75" DIA	2	N/A	0.96 (35°C)	1	28.30A	35.34A	55A	52.8A	75°C	50A
6	1	10 AWG THHN, COPPER	10 AWG THHN, COPPER	10 AWG THHN, COPPER	0.75" DIA	2	30A	0.96 (35°C)	1	20.57A	25.71A	40A	38.4A	75°C	35A
7	1	10 AWG THHN, COPPER	10 AWG THHN, COPPER	10 AWG THHN, COPPER	0.75" DIA	2	N/A	0.96 (35°C)	1	20.57A	25.71A	40A	38.4A	75°C	35A
8	1	10 AWG THHN, COPPER	N/A	10 AWG THHN, COPPER	0.75" DIA	4	20A	0.96 (35°C)	0.8	10.89A	13.61A	40A	30.72A	75°C	35A
9	1	12 AWG PV WIRE, COPPER	N/A	6 AWG BARE, COPPER	FREE AIR	2	N/A	0.96 (35°C)	1	10.89A	13.61A	30A	28.8A	75°C	25A

NEW SOLAR PROJECT 5.36 KW DC, 4.93 KW AC





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RENU ENERGY SOLUTIONS
LEVI JOHNSON

 SCALE:
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 09/08/2025

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40 TARLESTON DR FUQUAY, NC 27526 PV-4

SINGLE-LINE DIAGRAM

	MODULES									
REF. QTY. MAKE AND MODEL PMAX PTC ISC IMP VOC VMP TEMP. COFF. OF VOC FUSE RA							FUSE RATING			
(N) PV MODULES	17	REC SOLAR REC315NP BLACK	315W	294	10.17A	9.31A	40.0V	33.9V	-0.27%/°C	20A

		DISCONNECTS			
REF.	QTY.	MAKE AND MODEL	FUSES	RATED CURRENT	MAX RATED VOLATGE
(N) DISCONNECT	1	EATON OR EQUIVALENT	N/A	30A	240 V
(N) DISCONNECT	1	EATON OR EQUIVALENT	N/A	60A	240 V

	INVERTERS									
REF.	QTY.	MAKE AND MODEL	AC VOLTAGE	GROUND	OCPD RATING	RATED POWER	MAX OUTPUT CURRENT	MAX INPUT CURRENT	MAX INPUT VOLTAGE	CEC WEIGHTED EFFICIENCY
(N) MICROINVERTERS	17	ENPHASE IQ8PLUS-72-2-US	240V	FLOATING	20A	290W	1.21A	15A	60V	97.0%

	DESIGN TEMPERATURES
ASHRAE EXTREME LOW	-12°C (10.4°F), SOURCE: RALEIGH DURHAM INTERNATIONAL
ASHRAE 2% HIGH	34°C (93.2°F), SOURCE: RALEIGH DURHAM INTERNATIONAL

INVERTER OUTPUT CALCULATIONS & 705.12 COMPLIANCE

		# OF				MINIMUM
INVERTER		INVERTERS /	CONTINUOUS	125% SAFETY	TOTAL	BREAKER
OUTPUT CIRCUIT	INVERTER OR ESS	ESS	OUTPUT	FACTOR	BACKFEED	SIZE
#1	ENPHASE IQ8PLUS	1	20.57A	125%	25.71A	30A
	25.71A	30A				

MODULE	REC315NP
# OF MODULES LARGEST STRING	9
ASHRAE MIN TEMP [°C]	-12
VOC [V]	40.0
TEMP COEF VOC [%/°C]	-0.27
TEMP ADJ VOC [V]	43.99
VOLTAGE OF LARGEST STRING [V]	395.96

VOC CALCULATION PER NEC 690.7(A)(1)

ELECTRICAL NOTES (APPLICABILITY BASED ON SCOPE OF WORK)

AS-BUILT CHANGES TO THE ABOVE WIRING ARE PERMISSIBLE AS LONG AS SUBSTITUTIONS ARE CODE COMPLIANT. FOR EXAMPLE, APPROPRIATELY SIZED NM-B MAY BE USED FOR MICROINVERTER OUTPUT CIRCUITS IF INSTALLED IN ACCORDANCE WITH NEC ARTICLE 334, OR MC CABLE MAY BE USED FOR DC SOLAR STRINGS IF INSTALLED IN ACCORDANCE WITH NEC ARTICLE 330.

ALL OUTDOOR EQUIPMENT SHALL BE RAINTIGHT & HOLD A MINIMUM NEMA 3R RATING, INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES. CONDUCTORS EXPOSED TO WET CONDITIONS SHALL BE SUITABLE FOR USE IN WET CONDITIONS PER NEC 310.10(C).

ALL TERMINAL TEMPERATURES OF EQUIPMENT WILL BE VERIFIED TO BE RATED FOR 75° C, OR THE WIRE WILL NEED TO BE RESIZED USING THE 60° C TERMINAL TEMPERATURE RATINGS FOR 100A OR LESS.

ALL NM-B SHALL BE INSTALLED AND PROTECTED PER NEC 334, AND ALL SER CABLE SHALL BE INSTALLED AND PROTECTED PER NEC 338.

ALL ROOFTOP RACEWAYS AND CABLES EXPOSED TO DIRECT SUNLIGHT WILL BE INSTALLED >7/8" ABOVE THE ROOF.

ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250. A SUPPLEMENTAL GROUND ROD WILL BE DRIVEN IN ACCORDANCE WITH NEC 250.53(A)(3) IF THE EXISTING GROUND ROD HAS A RESISTANCE TO EARTH THAT IS GREATER THAN 25 OHMS.

IF ANY EXISTING LOAD CONDUCTORS ARE EXTENDED BY MORE THAN 6', AFCI PROTECTION WILL BE PROVIDED PER NEC 210.12(D).

PER NEC 690.47(A) PV SYSTEMS THAT ARE NOT SOLIDLY GROUNDED, THE EQUIPMENT GROUNDING CONDUCTOR FOR THE OUTPUT OF THE PV SYSTEMS SHALL BE PERMITTED TO BE THE CONNECTION TO GROUND FOR GROUND-FAULT PROTECTION AND EQUIPMENT GROUNDING OF THE PV ARRAY.

THE ESS CIRCUIT BREAKER SHALL BE SECURED IN PLACE BY AN ADDITIONAL FASTENER PER NEC 408.36(D).

NO SINGLE BACK-UP LOAD WILL BE LARGER THAN THE MAXIMUM CONTINUOUS OUTPUT OF THE ESS PER NEC 710.15(A).

R

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SCALE: NTS	AHJ:	HARNETT COUNTY
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PATRICIA FULLER

40 TARLESTON DR FUQUAY, NC 27526 PV-4A

DESIGN

TABLES

LABELING NOTES

- 1.1 LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRICAL CODE, INTERNATIONAL FIRE CODE 605.11, OSHA STANDARD 1910.145, ANSI Z535
- 1.2 MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 1.3 LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- 1.4 LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8" AND PERMANENTLY AFFIXED.
- 1.5 ALERTING WORDS TO BE COLOR CODED. "DANGER" WILL HAVE RED BACKGROUND; "WARNING" WILL HAVE ORANGE BACKGROUND; "CAUTION" WILL HAVE YELLOW BACKGROUND. [ANSI Z535]

⚠ WARNING

ELECTRICAL SHOCK HAZARD

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

LABEL 1

AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT (2" X 4"). [NEC 690.13].

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL 5

AT RAPID SHUTDOWN DISCONNECT SWITCH (5 1/4" X 2"). [NEC 690.56(C)(3)].

⚠ WARNING

POWER SOURCE **OUTPUT CONNECTION** DO NOT RELOCATE THIS OVERCURRENT DEVICE

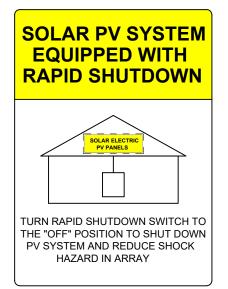
LABEL 2

AT POINT OF INTERCONNECTION OVERCURRENT DEVICE (2" X 4"). [NEC 705.12(B)(2)(3)(B)].



LABEL 3

AT POINT OF INTERCONNECTION, MARKED AT DISCONNECTING MEANS (4" X 2"). [NEC 690.54]



LABEL 6

AT RAPID SHUTDOWN SYSTEM (3 3/4" X 5 1/4"). [NEC 690.56(C)(1)(A)].

⚠ WARNING

DUAL POWER SUPPLY SOURCES: UTILITY GRID AND PV SOLAR **ELECTRIC SYSTEM**

LABEL 7

TEMPLATE V2.0

AT POINT OF INTERCONNECTION (2 3/4" X 1 5/8"). [NEC 705.12(B)(3)]



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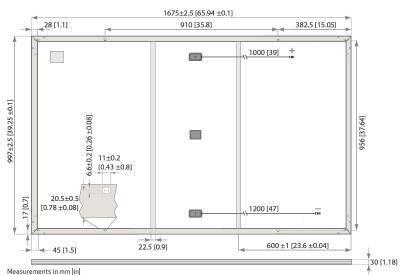
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PV-5 LABELS & **PLACARDS**



REC N-PEAK BLACK SERIES



Produ				
305	310	315	320	325
0/+5	0/+5	0/+5	0/+5	0/+5
33.3	33.6	33.9	34.2	34.4
9.17	9.24	9.31	9.37	9.46
39.3	39.7	40.0	40.3	40.7
10.06	10.12	10.17	10.22	10.28
18.3	18.6	18.9	19.2	19.5
	305 0/+5 33.3 9.17 39.3	305 310 0/+5 0/+5 33.3 33.6 9.17 9.24 39.3 39.7 10.06 10.12	305 310 315 0/+5 0/+5 0/+5 33.3 33.6 33.9 9.17 9.24 9.31 39.3 39.7 40.0 10.06 10.12 10.17	0/+5 0/+5 0/+5 0/+5 33.3 33.6 33.9 34.2 9.17 9.24 9.31 9.37 39.3 39.7 40.0 40.3 10.06 10.12 10.17 10.22

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m², temperature 25°¢), based on a production spread with a tolerance of $P_{MWV}V_{Oc}\&V_{IS}\&23\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watt class. *Where xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watter the xxx indicates the nominal power class ($P_{MWV}V_{IS}\&33\%$ within one watter the xxx indicates the

ELECTRICAL DATA @ NOCT	Produ	ct code*: REC	xxxNP Bla	ck			
Nominal Power - P _{MAX} (Wp)	214	217	221	224	228		
Nominal Power Voltage - V _{MPP} (V)	31.1	31.4	31.7	32.0	32.2		
Nominal Power Current - I _{MPP} (A)	6.86	6.91	6.97	7.01	7.08		
Open Circuit Voltage - V _{oc} (V)	36.7	37.1	37.4	37.7	38.0		
Short Circuit Current - I _{SC} (A)	7.53	7.57	7.61	7.65	7.69		
Nominal operating cell temperature (NOCT: air massAM 1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s). *Where xxx indicates the nominal power class (P _{uxy}) at STC above.							





IEC 62804 IEC 61701 IEC 62716 IEC 62782





120 half-cut n-type mono c-Si cells 6 strings of 20 cells in series Glass: 0.13" (3.2 mm) solar glass with anti-reflection surface treatment Backsheet Highly reflective and resistant polymeric construction (black) Anodized aluminum (black) Frame: 3-part, 3 bypass diodes, IP67 rated lunction box in accordance with IEC 62790 12 AWG (4 mm²) PV wire, 39 + 47" (1 m + 1.2 m) Connectors: Stäubli MC4 PV-KBT4/KST4, 12 AWG(4 mm²) IP68 only when connected

65.9 x 39.25 x 1.1" (1675 x 997 x 30 mm) 17.98 ft²(1.67 m²) 39.7 lbs (18 kg)

-40...+85°C Operational temperature 1000 V Maximum system voltage 4666 Pa (97.5 lbs/ft2)+ Design load (+): snow Maximum test load (+) 7000 Pa (146 lbs/ft²)* 1600 Pa (33.4 lbs/ft²)+ Design load (-): wind Maximum test load (-) 2400 Pa (50 lbs/ft²)* 20 A 20 A *Calculated using a safety factor of 1.5

Made in Singapore

lominal Operating Cell Temperature: 44°C (±2°C) Temperature coefficient of P_{MAX} -0.35 %/°C -0.27 %/°C Temperature coefficient of Voc 0.04 %/°C emperature coefficient of Icc: *The temperature coefficients stated are linear values

EMPERATURE RATINGS

ypical low irradiance performance of module at STC. Irradiance (W/m²)

Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through integrated manufacturing from silicon to wafers, cells, high-quality panels and extending to solar solutions, REC provides the world with a reliable source of clean energy, REC's enowmed product quality is supported by the lowest warranty claims rate in the industry. REC is a Bluestar Elkem company with headquarters in Norway and operational headquarters in Singapore, REC employs around 2,000 people worldwide, producing 1.5 GW of solar panels annually.





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PV-6 **EQUIPMENT DATASHEET**







IQ8 Series Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, softwaredefined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IO8 Series Microinverters integrate with the Enphase IQ Battery, Enphase IQ Gateway, and the Enphase App monitoring hours of power-on testing, enabling an industry-



Connect PV modules quickly and easily to IO8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-n-play MC4 connectors.



IO8 Series Microinverters redefine reliability standards with more than one million cumulative leading limited warranty of up to 25 years.



IO8 Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, when installed according to

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

Easy to install

- · Lightweight and compact with plug-n-play connectors
- Power Line Communication (PLC) between components
- · Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the grid is down*
- · More than one million cumulative hours of testing
- · Class II double-insulated enclosure
- · Optimized for the latest highpowered PV modules

Microgrid-forming

- · Complies with the latest advanced grid support**
- · Remote automatic updates for the latest grid requirements
- · Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) requirements
- * Only when installed with IQ System Controller 2, meets UL 1741. IQ8H-208V operates only in grid-tied mode.
- ** IQ8 Series Microinverters supports split phase, 240V. IQ8H-208 supports split phase, 208V only.

IQ8 Series Microinverters

INPUT DATA (DC)		IQ8-60-2-US	IQ8PLUS-72-2-US	108M-72-2-US	108A-72-2-US	IQ8H-240-72-2-US	IQ8H-208-72-2-US
Commonly used module pairings ²	W	235 - 350	235 - 440	260 - 460	295 - 500	320 - 540+	295 - 500+
lodule compatibility		60-cell/120 half-cell and 72-cell/144 half-cell				ell	
PPT voltage range	٧	27 - 37	29 - 45	33 - 45	36 - 45	38 - 45	38 - 45
Operating range	٧	25 - 48			25 - 58		
/lin/max start voltage	V	30 / 48			30 / 58		
Max input DC voltage	٧	50			60		
Max DC current ³ [module Isc]	Α			1	5		
Overvoltage class DC port				ı	I		
OC port backfeed current	mA			()		
PV array configuration		1x1 Ungrounded	array; No additional D	C side protection requ	ired; AC side protecti	on requires max 20A p	er branch circuit
DUTPUT DATA (AC)		108-60-2-US	IQ8PLUS-72-2-US	108M-72-2-US	IQ8A-72-2-US	IQ8H-240-72-2-US	IQ8H-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
Iominal (L-L) voltage/range⁴	٧			240 / 211 - 264			208 / 183 - 250
Max continuous output current	Α	1.0	1.21	1.35	1.45	1.58	1.73
lominal frequency	Hz			6	0		
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	5	16	13	11	11	10	9
otal harmonic distortion				<5	5%		
Overvoltage class AC port				ı	II		
AC port backfeed current	mA			3	0		
Power factor setting				1.	0		
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	0		
IECHANICAL DATA							
Ambient temperature range				-40°C to +60°C	(-40°F to +140°F)		
Relative humidity range				4% to 100%	(condensing)		
OC Connector type				M	C4		
Dimensions (HxWxD)			:	212 mm (8.3") x 175 mm	ı (6.9") x 30.2 mm (1.2	")	
Veight				1.08 kg (2.38 lbs)		
Cooling		Natural convection - no fans					
Approved for wet locations		Yes					
Pollution degree		PD3					
Enclosure		Class II double-insulated, corrosion resistant polymeric enclosure					
Environ. category / UV exposure rating	3	NEMA Type 6 / outdoor					
COMPLIANCE							
		CA Rule 21 (UL 1741-	SA), UL 62109-1, UL17-	41/IEEE1547, FCC Part	15 Class B, ICES-000	3 Class B, CAN/CSA-0	C22.2 NO. 107.1-01
Certifications		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 manufacturer's instructions.					

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



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PV-7 **EQUIPMENT** DATASHEET Data Sheet **Enphase Networking**

Enphase IQ Combiner 4/4C

X-IQ-AM1-240-4 X-IQ-AM1-240-4C



The Enphase IQ Combiner 4/4C with Enphase IQ Gateway and integrated LTE-M1 cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure and streamlines IQ microinverters and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.

Smart

- · Includes IQ Gateway for communication and control
- Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), included only with IQ Combiner 4C
- Includes solar shield to match Enphase IQ Battery aesthetics and deflect heat
- Flexible networking supports Wi-Fi, Ethernet, or cellular
- · Optional AC receptacle available for PLC bridge
- Provides production metering and consumption monitoring

Simple

- Centered mounting brackets support single stud mounting
- · Supports bottom, back and side conduit entry
- Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- 80A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- · Five-year limited warranty
- Two years labor reimbursement program coverage included for both the IQ Combiner SKU's
- UL listed



Enphase IQ Combiner 4/4C

MODEL NUMBER	
IQ Combiner 4 (X-IQ-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 modem (CELLMODEM/-NI-06-SP-05), a plug-and-play industrial-grade cell modem for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.) Includes a silver solar shield to match the IQ Battery and IQ System Controller and to deflect heat
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 BR215B 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	65 A
Max. continuous current rating (input from PV/storage)	64 A
Max. fuse/circuit rating (output)	90 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series 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 modem). Note that an Enphase Mobile Connect cellular modem is required for all Ensemble Installations.
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)
COMPLIANCE	III 4744 OAN/OOA OOO O No. 1074 47 OED Dawlee Okar D. 1050 OOO
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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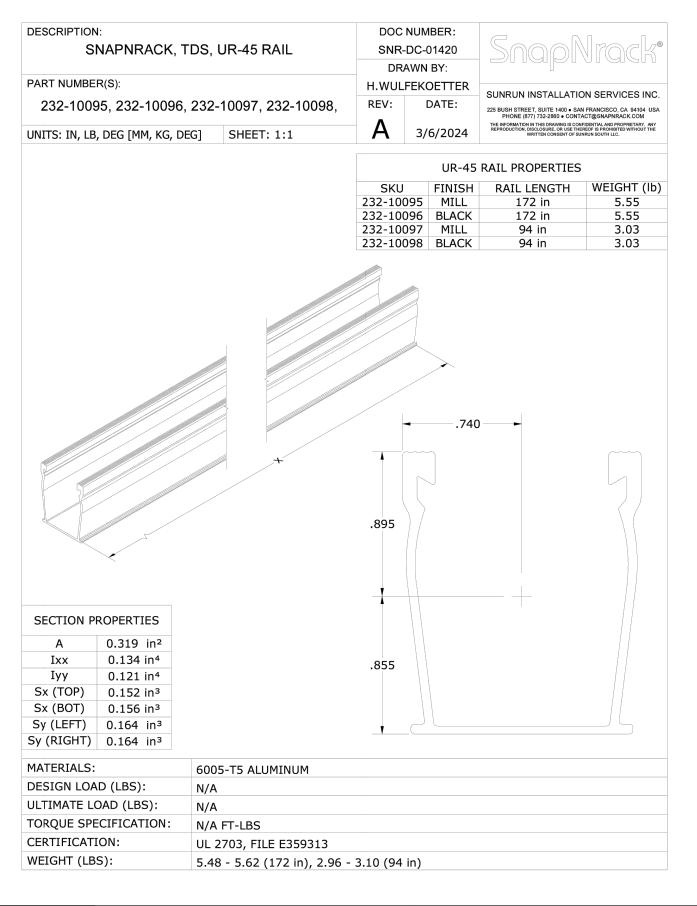


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PV-8
EQUIPMENT
DATASHEET



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EQUIPMENT
DATASHEET

Ultra Rail

AnchorFoot™



Deck Mounting, re-imagined.



Flexible direct to deck mounting & rafter mounting options



Pre-installed butyl for easy worry-free sealing



Compatible with proprietary **DeckAnchor™** fasteners cutting the number of deck fasteners in half, from 4 to 2



Single Tool installation & snap-in features as with all SnapNrack products

Start Installing AnchorFoot™ Today!



are the latest innovation designed to reduce the number of roof fasteners when mounting direct to deck and provide maximum flexibility to mount anywhere on the roof. Engineered with butyl, now installers do not have to add sealant to the bottom of the mount, simplifying the installation process and further protecting the roof.

AnchorFoot™

- Pre-installed butyl for easy peel & stick installation allows for no disruption to composition shingles
- Industry-leading .200" thick butyl allows installation over shingles without cutting pieces
- Flexible direct to deck mounting options with (2) DeckAnchors or (4) #14 wood screws
- Flexible rafter mounting options with (1) 5/16" lag or (2) #14 wood screws
- Ships pre-assembled with Ultra Rail Mounting Clamp for easy rail attachment
- Rated for UL2703 Bonding & Grounding with TAS 100A Wind Driven Rain Testing for waterproof certification





DeckAnchor

- Proprietary fastening technology to reduce the number of screws for direct to deck mounting
- Familiar ½" hex head to maintain the SnapNrack tradition of a single tool install
- · Wide threads securely grip the wood deck and significantly reduces the potential for over-tightening
- TAS 100A Wind Driven Rain Testing + ASTM D1761 Screw Capacities

Quality. Performance. Innovation.

SnapNrack solutions are focused on simplifying the installation experience through intuitive products and the best wire management in the industry.

SnapNrack

877-732-2860

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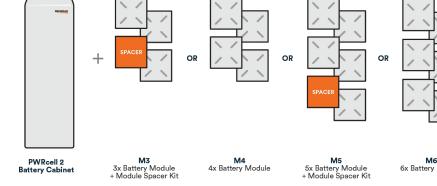
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PV-10 **EQUIPMENT** DATASHEET



CONFIGURATION **Battery Guide**



Specifications

PWRcell 2™ BATTERY CONFIGURATIONS	Мз	M4	M5	M6
PERFORMANCE				
Stored Energy	9.5 kWh	12.6 kWh	15.8 kWh	19.0 kWh
Useable Battery Energy	9 kWh	12 kWh	15 kWh	18 kWh
Useable Output Power	5.1 kW	6.9 kW	8.6 kW	10.5 kW
ELECTRICAL				
Voltage Range (Input/Output)		360 - 4	20 VDC	
Maximum Continuous Current	14.2 A	19.2 A	23.9 A	28.3 A
ENVIRONMENTAL				
Operating Temperature Range (Charging)		23 to 122 °F	(-5 to 50 °C)	
Operating Temperature Range (Discharging)		-4 to 122 °F (-20 to 50 °C)	
Full Performance Temperature Range (Charging)		50 to 92 °F	(10 to 33 °C)	
Full Performance Temperature Range (Discharging)	32 to 122 °F (0 to 50 °C)			
Operating Humidity - % RH	0 to 100, non-condensing			
Maximum Elevation - ft (m)	6560 (2000)			
Enclosure Rating	Type 3R			
MECHANICAL				
Dimensions (DxWxH) - in (cm)		10.75 x 23 x 70.19	(27.1 x 58.2 x 178.3)	
Total Weight of Cabinet - Ib (kg)		113 (51.3)	
Total Weight of Installed Unit - lb (kg)	278 (126.1)	333 (151)	388 (176)	443 (200.9)
Maximum Lift Weight of Cabinet - lb (kg)		62.6	(28.4)	
Mounting	Wall or floor			
COMPLIANCE				
Safety	UL 9540, UL 1973, UL 9540A, UL 1998			
Environmental	IEEE 693 [High], FCC Part 15 Class B			
Evaluated Functions/Protection	Battery overcharge, battery over discharge, battery short-circuit, system overcurrent, battery temperature, cabinet switch (disconnect)			

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PV-11 EQUIPMENT DATASHEET



Specifications

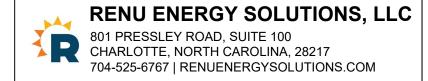
Specifications	intertex
ELECTRICAL	
Nominal Voltage	46.8 VDC
Useable Capacity at Typical Voltage	3 kWh
Minimum Allowed Modules per Cabinet	3
Maximum Allowed Modules per Cabinet	6
ENVIRONMENTAL	
Full Performance Temperature Range (Charging)	59 to 104 °F (15 to 40 °C)
Full Performance Temperature Range (Discharging)	41 to 122 °F (5 to 50 °C)
Operating Temperature Range (Charging)	41 to 122 °F (5 to 50 °C)
Operating Temperature Range (Discharging)	14 to 122 °F (-10 to 50 °C)
Maximum Storage Temperature (< 1 mo)	122 °F (50 °C)
MECHANICAL	
Dimensions (LxWxH) - in (mm)	17.3 × 17.7 × 3.3 (440 × 450 × 84)
Weight - Ib (kg)	55 (25)
Battery Chemistry	Lithium Nickel Manganese Cobalt (NMC)
COMPLIANCE	
Safety	UL 1973
WARRANTY	
Evaluated Functions/Protection	10 years or 7.56 MWh throughput (per module)

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11.5 kW PWRcell 2 Inverter

MODEL NUMBER: APKE00075

This 11.5 kW max continuous power inverter moves power from the battery to the home or the AC connected solar PV array into the battery and has enough power to start up to a 5-ton air conditioner without a soft starter.

Features & Benefits

- Up to 236 LRA when configured with two battery cabinets to start multiple air conditioners
- Can be configured with up to 2 inverters and 4 battery cabinets for 72 kWh of capacity and 23 kW continuous power
- Works with PWRcell 2 an AC coupled system



AC OUTPUT

Maximum Continuous AC Power	11.5 kW
Maximum DC Power	12 kW
Maximum Continuous AC Current	48 A
Overcurrent Protection	60 A
Operating AC Voltage Range	105 - 132 VAC (120 nominal)
Nominal Power Factor	0-1
LRA	236
Maximum AC Fault Current	175 A
DC INPUT	
Nominal Input Voltage	400 VDC
DC Input Voltage Range	360 to 420 VDC
Maximum DC Input Current	34 A
PERFORMANCE	
Operating Frequency	60 Hz
CEC Efficiency	98.50%
Warranty	10 years
MECHANICAL	
Dimensions - in (cm)	22.8 x 8.1 x 24.1 (57.91 x 20.57 x 61.21)
Weight - Ibs (kg)	61 (27.67)
Mounting Options	Wall

ENVIRONMENTAL	
Operating Temperature	-4 to 122 °F (-20 to 50 °C)
Operating Humidity	Up to 100% condensing
Maximum Elevation - ft (m)	6562 (2000)
Environment	Indoor and outdoor rated
Enclosure Rating	Type 3R
Operating Noise @1 m - db(a)	< 40 @ 30 °C
COMPLIANCE	
Grid Certifications	UL 1741, UL 1741 SA, UL 1741 SB, IEEE 1547, Rule 21, Rule 14H (HECO SRD V2.0), CSIP
Safety Certifications	UL 1741, UL 1998
Emissions	FCC Part 15 Class B

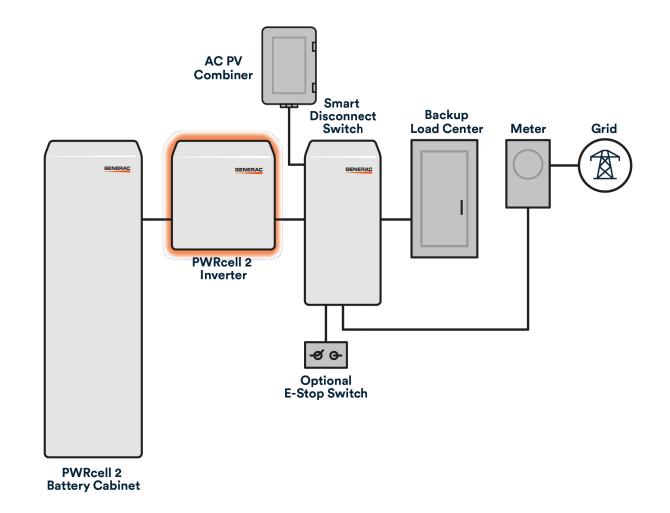
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CONFIGURATION

Whole Home Backup

The PWRcell 2 Inverter is an integral component of the PWRcell 2 Home Energy Storage System.







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Smart Disconnect Switch (SDS)

MODEL NUMBER: APKE00067

The Smart Disconnect Switch is a versatile and powerful addition to the PWRcell 2 system that aggregates all power generation sources into one hub - supporting AC PV, battery backup (OR storage) and generator. It is rated for both service entrance and non service entrance lending flexibility of installation. SDS also has incorporated PCS (power control systems) functionality, allowing for future increase in solar and storage without upgrading the main service panel.

Features & Benefits

- Expandable up to 19.2 kW PV, up to 23 kW battery backup, 26 kW home stand-by generator
- Seamless home standby generator integration for exceptional resiliency
- Wi-Fi, LTE connectivity
- Supports both partial and whole home backup



Specifications

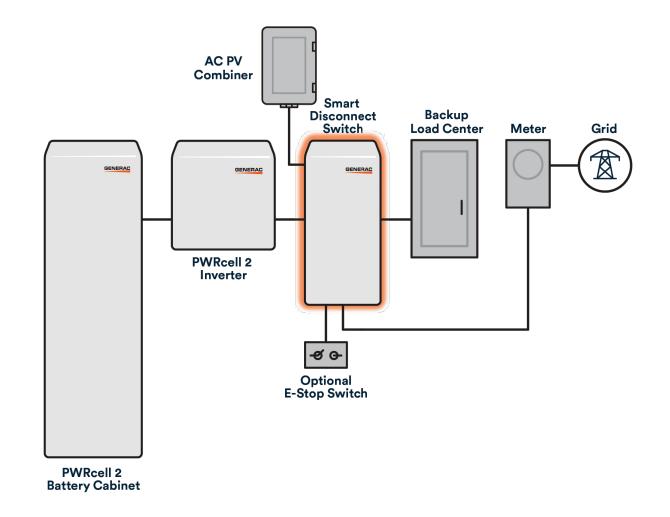
PERFORMANCE	
AC Voltage (Nominal)	120/240
Feed-In Type	Split phase
Grid Frequency	60
Current Rating	200
Maximum Input Short Circuit Current	22
Automatic Transfer Time	< 50
Overcurrent Protection Device	Main breaker (EATON 2-pole series only): CSR2100N (100A), CSR2125N (125A), CSR2150N (150A), CSR2200N (200A)
Overvoltage Category	IV
Meter Accuracy	ANSI C-12.20-2015 Class 0.5 (±0.5%) OR C-12.1-2022 Class 0.5 (±0.5%)
Primary Connectivity	Wi-Fi
Secondary Connectivity	Cellular (LTE CAT-M1), ethernet
System Control Method	CAN
Warranty	10 years
MECHANICAL	
Dimensions (L x W x H) - in (cm)	17 x 7.1 x 36.4 (43.18 x 18.03 x 92.45)
Weight - Ibs (kg)	59 (26.76)
Mounting Options	Wall

ENVIRONMENTAL	
Operating Temperature	-4 to 122 °F (-20 to 50 °C)
Operating Humidity	Up to 100% condensing
Maximum Elevation - ft (m)	9,842 (3000)
Environment	Indoor and outdoor rated
Enclosure Type	Type 3R
COMPLIANCE	
Certifications	UL 1741, UL 1741 SA, UL 1741 SB, UL 1741 PCS CRD, UL 869A, UL 67, IEEE 2030.5, CSIP
Emissions	FCC Part 15 Class B
INTERCONNECTION	
Maximum Back Up Load Panel	200 A
Maximum Non-Back Up Load Panel	100 A
Generac Generator	Up to 26 kW
AC PV	100 A
ESS 2	60 A
ESS 1	60 A

CONFIGURATION

Whole Home Backup

The SDS is an integral component of the PWRcell 2 Home Energy Storage System.





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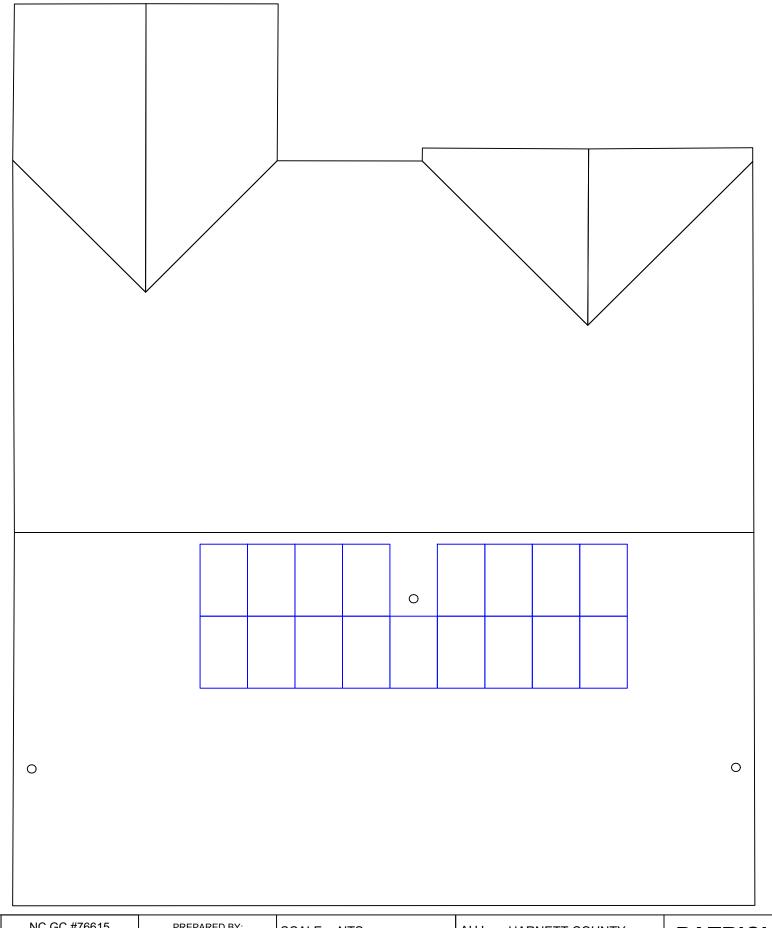
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PV-15 MAPPING SHEET