

# PHOTOVOLTAIC ROOF MOUNT SYSTEM

08 MODULES-ROOF MOUNTED - 3.280 kWDC, 2.792 kWAC

1296 REED ST, GREEN BAY, WI 54303, USA

## SYSTEM SUMMARY:

- (N) 08 - REC SOLAR REC410AA PURE (410W) MODULES
- (N) 08 - ENPHASE ENERGY IQ8A-72-2-US MICRO-INVERTERS
- (N) 01 - JUNCTION BOX
- (E) 100A MAIN SERVICE PANEL WITH (E) 100A MAIN BREAKER
- (N) 30A NON-FUSED AC DISCONNECT
- (N) ENPHASE IQ COMBINER BOX 4

## GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE PERFORMED BY A QUALIFIED LICENSED ELECTRICIAN AND/OR APPRENTICES WORKING UNDER THE DIRECT SUPERVISION OF THE LICENSED CONTRACTOR.
- ALL WORK CARRIED OUT SHALL COMPLY WITH THE SPECIFICATIONS, APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED AMONG SITE CONDITIONS, MANUFACTURER RECOMMENDATIONS, OR AUTHORITY HAVING JURISDICTION. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A WRITTEN "RFI"(REQUEST FOR INFORMATION) PROPOSING AN ALTERNATIVE OR SEEKING CLARIFICATION.
- THE CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, ACCESSORIES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- FALL ARREST PROTECTION PER OSHA REQUIREMENTS SHALL BE PROVIDED FOR ALL ROOF WORK.
- WHEN INSTALLING IN FIRE RATED AREAS, SEAL ALL PENETRATIONS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION. ALL DEBRIS AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES NOT PART OF THE SCOPE OF WORK AS IDENTIFIED IN THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- DUE TO THE FACT THAT PV MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT, CONTRACTOR SHALL DISABLE THE ARRAY DURING INSTALLATION AND SERVICE BY SHORT CIRCUITING, OPEN CIRCUITING, OR COVERING ARRAY WITH AN OPAQUE COVER ACCORDING TO MANUFACTURER'S INSTRUCTION.
- CONSTRUCTION LOADING ON THE ROOF, SUCH AS MATERIAL STAGED ON THE ROOF, SHALL BE LIMITED TO 20 PSF. CONCENTRATED LOADING SHALL BE AVOIDED TO PREVENT LOCALIZED DAMAGE TO THE ROOF.

## DESIGN CRITERIA:

ROOF TYPE: - ASPHALT SHINGLE  
 STRUCTURE DETAIL: - 2"X6" RAFTERS @24" O.C.  
 STORY: - ONE STORY  
 GROUND SNOW LOAD : - 40 PSF  
 WIND SPEED :- 115 MPH  
 WIND EXPOSURE:- B  
 RISK CATEGORY:- II  
 COORDINATE:- 44.526998, -88.047171

## GOVERNING CODES:

UTILITY HAS 24 HR. UNRESTRICTED ACCESS TO ALL PV SYSTEM COMPONENTS: LOCATED AT SERVICE ENTRANCE.  
 NATIONAL ELECTRICAL CODE 2017 (NEC)  
 INTERNATIONAL RESIDENTIAL CODE, 2015 (IRC)  
 INTERNATIONAL PLUMBING CODE, 2015 (IPC)  
 WISCONSIN UNIFORM DWELLING CODE 2016 (WUDC)  
 INTERNATIONAL BUILDING CODE, 2015 (IBC)  
 INTERNATIONAL EXISTING BUILDING CODE, 2015 (IEBC)  
 INTERNATIONAL MECHANICAL CODE, 2015 (IMC)  
 INTERNATIONAL ENERGY CONSERVATION CODE, 2016 (IEC)  
 INTERNATIONAL FUEL GAS CODE, 2015 (IFGC)  
 WISCONSIN (STATEWIDE) FIRE PREVENTION CODE 2015

## SHEET INDEX

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PV-2	ROOF PLAN WITH MODULES
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PV-5	ELECTRICAL LINE DIAGRAM
PV-6	ELECTRICAL CALCULATION
PV-7	PLACARD & WARNING LABELS
PV-8	ADDITIONAL NOTES
PV-9+	EQUIPMENT SPEC SHEETS



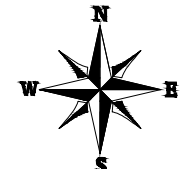
ARRAY LOCATION

1 | AERIAL PHOTO  
 PV-0 | SCALE: NTS



PROJECT SITE

2 | VICINITY MAP  
 PV-0 | SCALE: NTS



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PROJECT NUMBER : 225

## VERSION

DESCRIPTION	DATE	REV
INITIAL RELEASE	03/13/2024	UR

## PROJECT NAME

24-22 CARDINAL  
 1296 REED ST,  
 GREEN BAY, WI 54303, USA  
 APN# 5-668-B  
 UTILITY: WPS  
 AHJ: CITY OF GREEN BAY

## SHEET NAME

COVER SHEET

## SHEET SIZE

ANSI B  
 11" X 17"

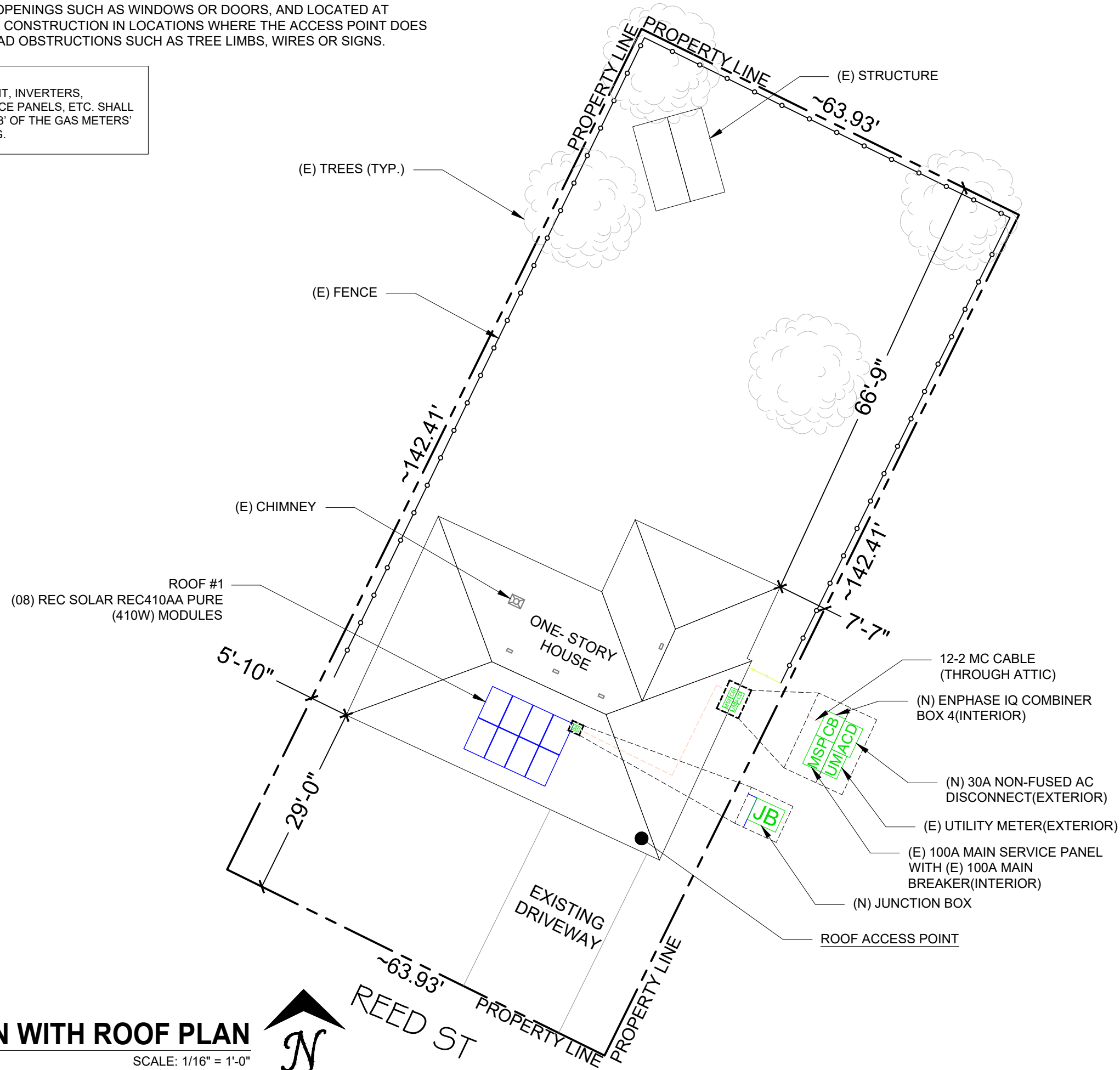
## SHEET NUMBER

PV-0

● **ROOF ACCESS POINT** SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS.

**NOTE:**

A. ALL ELECTRICAL EQUIPMENT, INVERTERS, DISCONNECTS, MAIN SERVICE PANELS, ETC. SHALL NOT BE INSTALLED WITHIN 3' OF THE GAS METERS' SUPPLY OR DEMAND PIPING.



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**SHEET NAME**

SITE PLAN WITH  
 ROOF PLAN

**SHEET SIZE**

ANSI B  
 11" X 17"

**SHEET NUMBER**

PV-1

1

**SITE PLAN WITH ROOF PLAN**

SCALE: 1/16" = 1'-0"





(08) REC SOLAR REC410AA PURE (410W) MODULES  
 (08) ENPHASE ENERGY IQ8A-72-2-US MICRO INVERTERS  
 (01) BRANCH OF 08 MODULES ARE CONNECTED IN PARALLEL

SYSTEM SIZE:- 08 x 410W = 3.280 kWDC  
 SYSTEM SIZE:- 08 x 349W = 2.792 kWAC

INTERCONNECTION  
 120% RULE - NEC 705.12(B)(2)(3)(b)

UTILITY FEED + SOLAR BACKFEED  
 100A +20A = 120A

BUSS RATING x 120%  
 100A x 120% = 120A

**BILL OF MATERIALS**

EQUIPMENT	QTY	DESCRIPTION
SOLAR PV MODULE	08	REC SOLAR REC410AA PURE (410W) MODULES
INVERTER	08	ENPHASE ENERGY IQ8A-72-2-US MICRO-INVERTERS
JUNCTION BOX	1	600V, 55A MAX, 4 INPUTS, MOUNTED ON ROOF FOR WIRE & CONDUIT TRANSITION
COMBINER BOX	1	ENPHASE IQ COMBINER BOX 4
AC DISCONNECT	1	30A NON-FUSED AC DISCONNECT, 240 VAC



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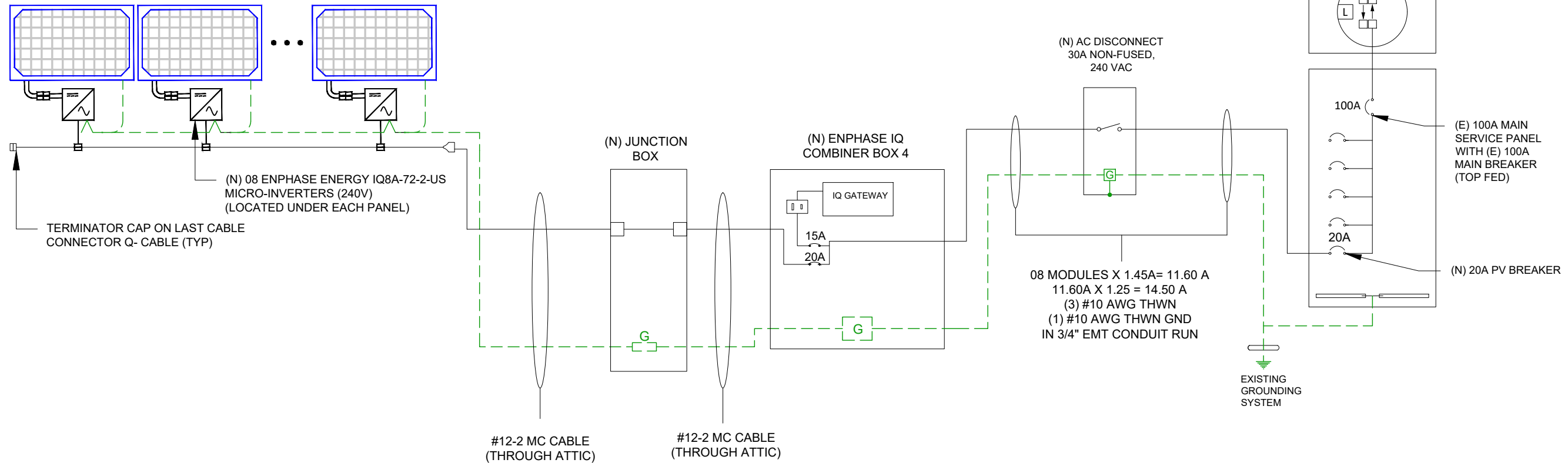
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(N) 08 MICRO-INVERTERS IN BRANCH CIRCUIT #1



**SERVICE INFO.**

UTILITY PROVIDER: WPS  
 MAIN SERVICE VOLTAGE: 240V  
 MAIN PANEL BRAND: N/A  
 MAIN SERVICE PANEL: (E) 100A  
 MAIN CIRCUIT BREAKER RATING: (E) 100A  
 MAIN SERVICE LOCATION: SOUTH-EAST  
 SERVICE FEED LOCATION: N/A

1

**ELECTRICAL LINE DIAGRAM**

SCALE: NTS

**SHEET NAME**

ELECTRICAL LINE DIAGRAM

**SHEET SIZE**

ANSI B  
 11" X 17"

**SHEET NUMBER**

PV-5

# REC ALPHA<sup>®</sup> PURE SERIES PRODUCT SPECIFICATIONS

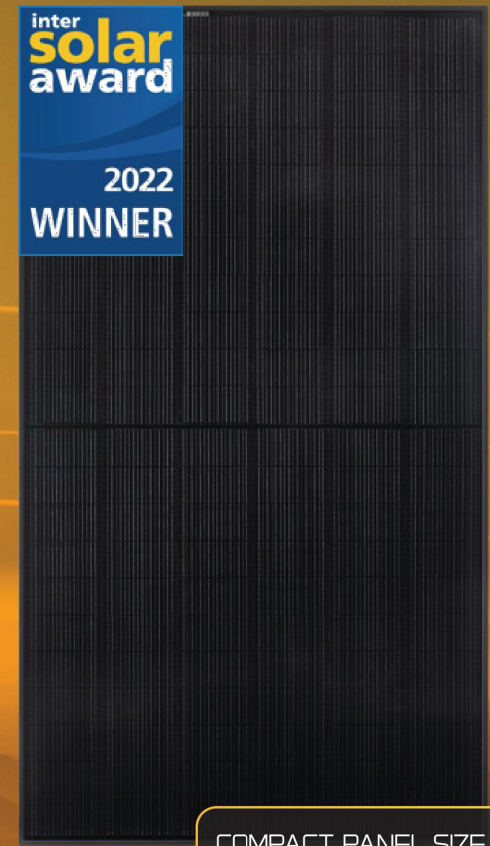
**410 WP**  
19.3 W/FT<sup>2</sup>  
**22.2% EFFICIENCY**



**LEAD-FREE**  
ROHS COMPLIANT

EXPERIENCE  
**α**  
PERFORMANCE

SOLAR'S MOST TRUSTED

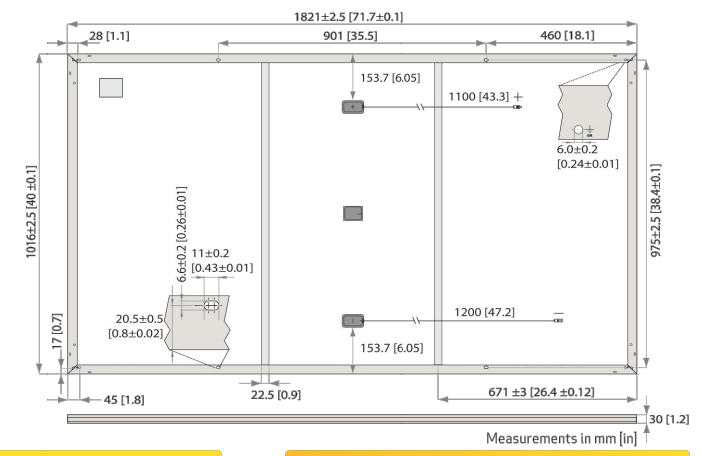


COMPACT PANEL SIZE

## REC ALPHA PURE SERIES PRODUCT SPECIFICATIONS



GENERAL DATA	
Cell type:	132 half-cut REC heterojunction bifacial cells with lead-free, gapless technology, 6 strings of 22 cells in series
Glass:	0.13 in (3.2 mm) solar glass with anti-reflective surface treatment in accordance with EN12150
Backsheet:	Highly resistant polymer (black)
Frame:	Anodized aluminum (black)
Junction box:	3-part, 3 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790
Connectors:	Stäubli MC4 PV-KBT4/KST4 (4 mm <sup>2</sup> ) in accordance with IEC 62852, IP68 only when connected
Cable:	12 AWG (4 mm <sup>2</sup> ) PV wire, 43+47 in (1.1+1.2 m) in accordance with EN 50618
Dimensions:	71.7 x 40 x 1.2 in (19.91 ft <sup>2</sup> ) / 1821 x 1016 x 30 mm (1.85 m <sup>2</sup> )
Weight:	45 lbs (20.5 kg)
Origin:	Made in Singapore



	Product Code*: RECxxxAA Pure				
	390	395	400	405	410
Power Output - P <sub>MAX</sub> (Wp)	390	395	400	405	410
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - V <sub>MPP</sub> (V)	40.6	41.0	41.4	41.8	42.2
Nominal Power Current - I <sub>MPP</sub> (A)	9.61	9.64	9.67	9.69	9.72
Open Circuit Voltage - V <sub>OC</sub> (V)	48.4	48.6	48.8	49.1	49.4
Short Circuit Current - I <sub>SC</sub> (A)	10.38	10.39	10.40	10.41	10.42
Power Density (W/ft <sup>2</sup> )	19.6	19.8	20.1	20.3	20.6
Panel Efficiency (%)	21.1	21.4	21.6	21.9	22.2
Power Output - P <sub>MAX</sub> (Wp)	297	301	305	308	312
Nominal Power Voltage - V <sub>MPP</sub> (V)	38.3	38.6	39.0	39.4	39.8
Nominal Power Current - I <sub>MPP</sub> (A)	7.77	7.79	7.82	7.83	7.85
Open Circuit Voltage - V <sub>OC</sub> (V)	45.6	45.8	46.0	46.3	46.6
Short Circuit Current - I <sub>SC</sub> (A)	8.38	8.39	8.40	8.41	8.42

Values at standard test conditions (STC: air mass AM1.5, irradiance 1075 W/sq ft (1000 W/m<sup>2</sup>), temperature 77°F (25°C), based on a production spread with a tolerance of P<sub>MAX</sub>, V<sub>OC</sub> & I<sub>SC</sub> ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m<sup>2</sup>, temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s). \* Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC above.

MAXIMUM RATINGS		WARRANTY		
Operational temperature:	-40 ... +185°F	Standard	REC ProTrust	
Maximum system voltage:	1000 V	Installed by an REC Certified Solar Professional	No	Yes
Maximum test load (front):	+7000 Pa (146 lbs/ft <sup>2</sup> )	System Size	All	≤25 kW 25-500 kW
Maximum test load (rear):	-4000 Pa (83.5 lbs/ft <sup>2</sup> )	Product Warranty (yrs)	20	25 25
Max series fuse rating:	25 A	Power Warranty (yrs)	25	25 25
Max reverse current:	25 A	Labor Warranty (yrs)	0	25 10
		Power in Year 1	98%	98% 98%
		Annual Degradation	0.25%	0.25% 0.25%
		Power in Year 25	92%	92% 92%

\* See installation manual for mounting instructions. Design load = Test load / 1.5 (safety factor). The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See www.recgroup.com for more details.

Available from:

Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.

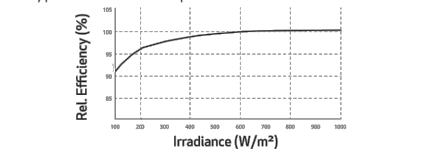
CERTIFICATIONS	
IEC 61215:2016, IEC 61730:2016, UL 61730	
IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
UL 61730	Fire Type Class 2
IEC 62782	Dynamic Mechanical Load
IEC 61215-2:2016	Hailstone (35mm)
IEC 62321	Lead-free acc. to RoHS EU 863/2015
ISO 14001, ISO 9001, IEC 45001, IEC 62941	



TEMPERATURE RATINGS*	
Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P <sub>MAX</sub> :	-0.24 %/°K
Temperature coefficient of V <sub>OC</sub> :	-0.24 %/°K
Temperature coefficient of I <sub>SC</sub> :	0.04 %/°K

DELIVERY INFORMATION	
Panels per pallet:	33
Panels per 40 ft GP/high cube container:	792 (24 pallets)
Panels per 53 ft truck:	891 (27 pallets)

LOW LIGHT BEHAVIOUR  
Typical low irradiance performance of module at STC:



REC Solar PTE. LTD.  
20 Tuas South Ave. 14  
Singapore 637312  
post@recgroup.com



Specifications subject to change without notice. Ref: PM-DS-12-06-Rev-9 02.23

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SHEET NAME  
SPEC SHEETS

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
PV-9





DATA SHEET



## IQ8 Series Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined 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, IQ8 Series Microinverters integrate with the Enphase IQ Battery, Enphase IQ Gateway, and the Enphase App monitoring and analysis software.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-n-play MC4 connectors.



IQ8 Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, when installed according to manufacturer's instructions.

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IQ8SE-DS-0001-01-EN-US-2021-10-19

### 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 high-powered 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

## IQ8 Series Microinverters

INPUT DATA (DC)		IQ8-60-2-US	IQ8PLUS-72-2-US	IQ8M-72-2-US	IQ8A-72-2-US	IQ8H-240-72-2-US	IQ8H-208-72-2-US <sup>1</sup>
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		60-cell/120 half-cell and 72-cell/144 half-cell			
MPPT voltage range	V	27 – 37	29 – 45	33 – 45	36 – 45	38 – 45	38 – 45
Operating range	V	25 – 48		25 – 58			
Min/max start voltage	V	30 / 48		30 / 58			
Max input DC voltage	V	50		60			
Max DC current <sup>3</sup> [module lsc]	A			15			
Overvoltage class DC port				II			
DC port backfeed current	mA			0			
PV array configuration		1x1 Ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit					
OUTPUT DATA (AC)		IQ8-60-2-US	IQ8PLUS-72-2-US	IQ8M-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
Nominal (L-L) voltage/range <sup>4</sup>	V			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	60					
Extended frequency range	Hz	50 – 68					
Max units per 20 A (L-L) branch circuit <sup>5</sup>		16	13	11	11	10	9
Total harmonic distortion		<5%					
Overvoltage class AC port		III					
AC port backfeed current	mA	30					
Power factor setting		1.0					
Grid-tied power factor (adjustable)		0.85 leading – 0.85 lagging					
Peak efficiency	%	97.5	97.5	97.6	97.6	97.6	97.4
CEC weighted efficiency	%	97	97	97	97.5	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 175 mm (6.9") x 30.2 mm (1.2")					
Weight		1.08 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, corrosion resistant polymeric enclosure					
Environ. category / UV exposure rating		NEMA Type 6 / outdoor					
COMPLIANCE							
Certifications		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 manufacturer's instructions.					

(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-2021-10-19



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SPEC SHEETS

### SHEET SIZE

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11" X 17"

### SHEET NUMBER

PV-10