#### **Solar PV Array Installation for 50 Sargent Ave**

Owner seeks to install 13.1kWh Solar PV array with accompanying microinverters and combiner box. Panels would be located on each side of the main roof as well as the rear rubber roof.

- (N) 17.480kWDC, (N) 14.440kWAC ROOF MOUNTED PV SYSTEM
- (N) (38) REC SOLAR REC460AA PURE-RX SOLAR MODULES
- (N) (38) ENPHASE IQ8X-80-M-US (240V) MICRO INVERTERS
- (N) (1) 125A ENPHASE IQ COMBINER BOX 5

### 50 SARGENT AVE, WINTER HILL, MA 02145 PHOTOVOLTAIC ROOF MOUNT SYSTEM 14.720kWDC, 12.160kWAC

CITY OF SOMERVILLE

UTILITY:

EVERSOURCE

GOVERNING CODES WITH AMENDMENTS

2021 INTERNATIONAL BUILDING CODE (IBC) 2021 INTERNATIONAL RESIDENTIAL CODE (IRC) 2021, NFPA 1 2023 NATIONAL ELECTRICAL CODE (NEC)

WIND SPEED: 119 MPH SNOW LOAD: 40 PSF

# SCOPE OF WORK

(N) 14,720kWDC, (N) 12,160kWAC ROOF MOUNTED PV SYSTEM (N) (32) REC SOLAR REC460AA PURE-RX SOLAR MODULES (N) (32) ENPHASE IQ8X-80-M-US (240V) MICRO INVERTERS (N) (1) 125A ENPHASE IQ COMBINER BOX 5

### VICINITY MAP



### SHEET INDEX

PV-2 SITE PLAN
PV-3 PROPERTY PLAN
PV-4 ROOF PLAN
PV-5 ATTACHMENT DETAIL
PV-6 SINGLE LINE DIAGRAM
PV-7 ELECTRICAL NOTES
PV-8 LABELS & PLACARD
PV-9 TO PV-13 SPEC SHEETS PV-1 COVER SHEET

# CONTRACTOR INFORMATION



NEW ENGLAND CLEAN ENERGY 577 MAIN STREET, HUDSON, MA 01749

PHONE: +1 978 830 3181 LICENSE#

CS-102855 TYPE-CSL

#### PHOTOVOLTAIC ROOF MOUNT SYSTEM

14.720 kW DC, 12.160 kW AC MARC RESIDENCE WINTER HILL, MA 02145 50 SARGENT AVE,



#### 76 N Meadowbrook Drive, Alpine UT 84004 Massachusetts COA #001629764 Signed 9/22/2025

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

CONSTRUCTION WHERE THE ACCESS POINT DOES NOT

LOCATED AT STRONG POINTS OF BUILDING

CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS

INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.

8. THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM THE UTILITY IS

COPPER UNLESS OTHERWISE NOTED.
7. WHEN REQUIRED, A LADDER SHALL BE IN PLACE FOR

ALL CONDUCTORS SHALL BE 600V, 90°C STANDARD

EQUIPMENT.

12. FIRE RATING OF EXISTING ROOF ASSEMBLY SHALL BE MAINTAINED WITH ADDITION OF PHOTOVOLTAIC SYSTEM.

TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING 11. RACKING SYSTEM SHALL BE LISTED TO UL 2703.

10 PV ARRAY COMBINER/JUNCTION BOX PROVIDES

TREES, WIRES OR SIGNS,

ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26.
ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL' SERVICE

WORKING CLEARANCES AROUND THE NEW PV

SITE CONDITIONS MAY VARY

CONFORM TO THE STANDARDS.
2. INVERTERS ARE LISTED UNDER UL 1741 AND CONFORM TO THE STANDARDS.

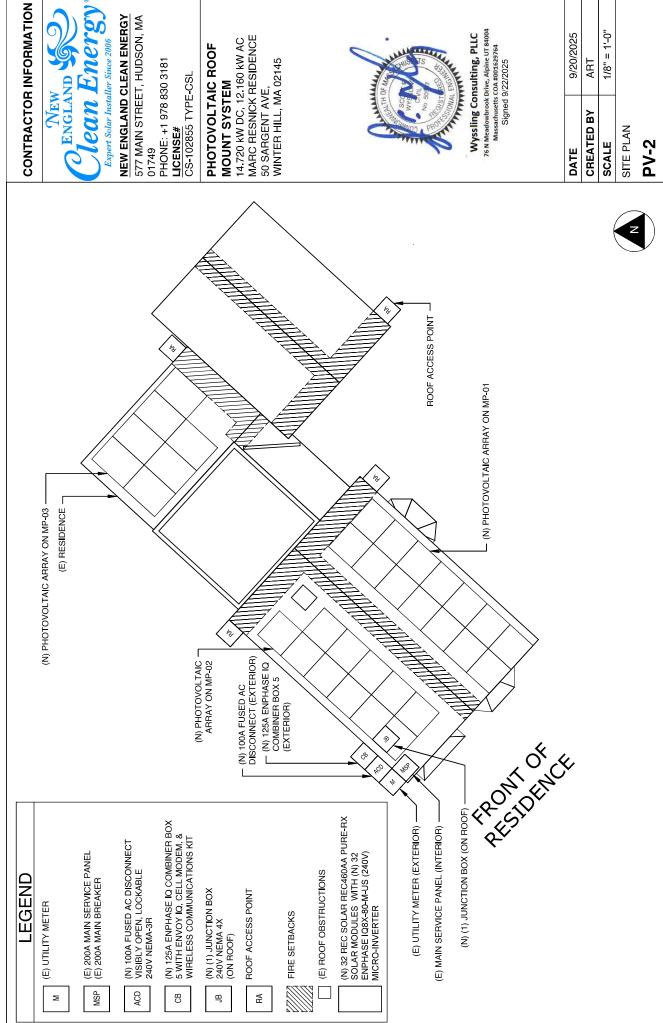
3. DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT OF THE PV SYSTEM AND THE ACTUAL

1. MODULES ARE LISTED UNDER UL 61730 / UL 1703 AND

GENERAL NOTES

DATE	9/20/2025
CREATED BY	ART
SCALE	NTS

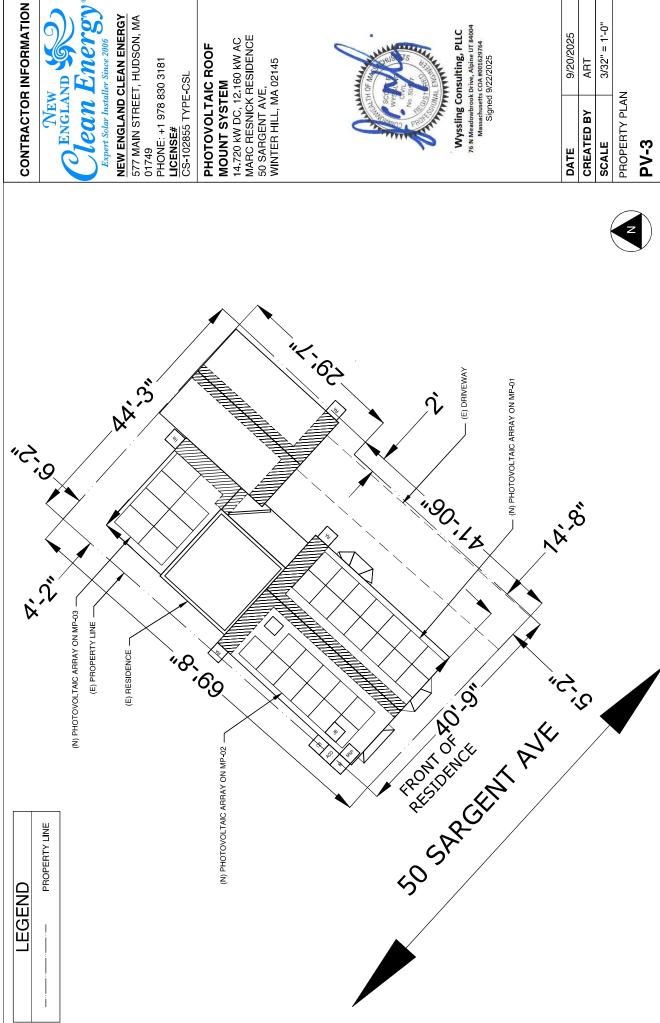
COVER SHEET







DATE	9/20/2025
CREATED BY	ART
SCALE	1/8" = 1'-0"



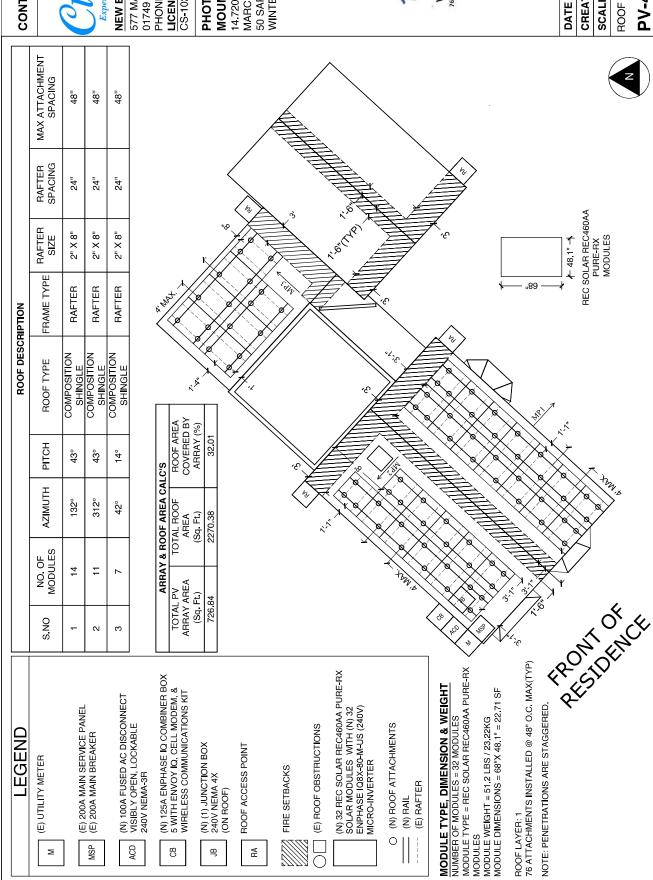


14.720 kW DC, 12.160 kW AC MARC RESNICK RESIDENCE



Wyssling Consulting, PLLC

76 N Meadowbrook Drive, Alpine UT 84004 Massachusetts COA #001629764 Signed 9/22/2025



# CONTRACTOR INFORMATION



**NEW ENGLAND CLEAN ENERGY** 577 MAIN STREET, HUDSON, MA

PHONE: +1 978 830 3181

CS-102855 TYPE-CSL LICENSE#

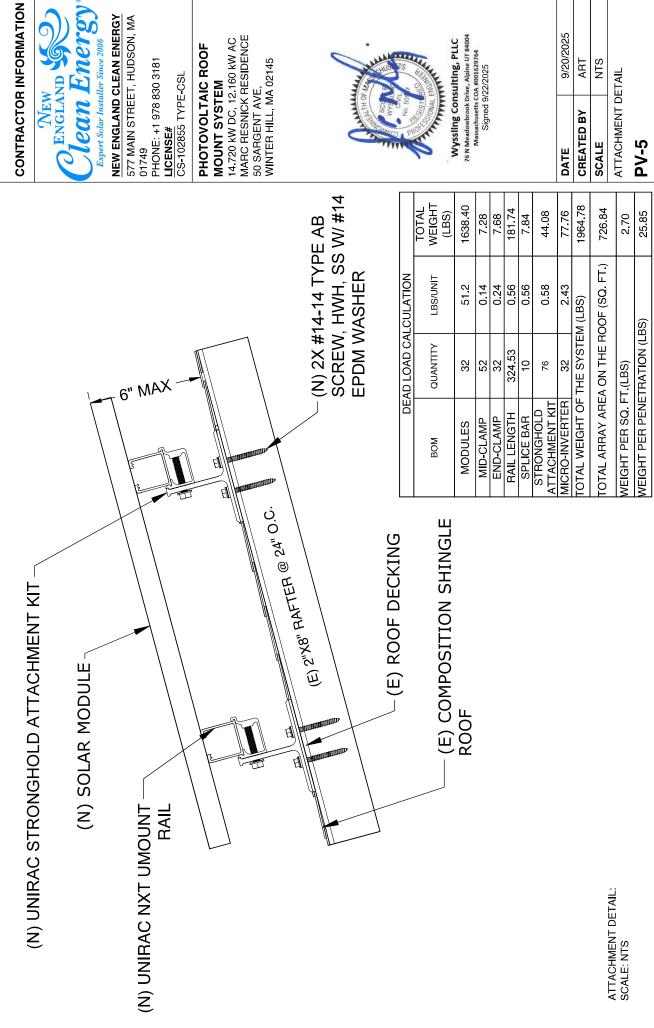
#### PHOTOVOLTAIC ROOF **MOUNT SYSTEM**

14.720 kW DC, 12.160 kW AC MARC RESIDENCE WINTER HILL, MA 02145 50 SARGENT AVE,



76 N Meadowbrook Drive, Alpine UT 84004 Wyssling Consulting, PLLC Massachusetts COA #001629764 Signed 9/22/2025

**ROOF PLAN** 





14.720 kW DC, 12.160 kW AC MARC RESNICK RESIDENCE



Wyssling Consulting, PLLC

DATE	9/20/2025
CREATED BY	ART
SCALE	NTS
	: :

# SYSTEM INFORMATION DC SYSTEM SIZE: 14.720kW DC AC SYSTEM SIZE: 12.160kW AC

(32) REC SOLAR REC460AA PURE-PX SOLAR MODULES (32) ENPHASE IQ8X-80-M-US (240V) MICHO INVERTERS EQUIPPED WITH RAPID SHUTDOWN

BRANCHES (4) BRANCH CIRCUIT OF 8 MODULES CONNECTED IN PARALLEL

<u>Z</u>	INVERTER SPEC		MODULE SPEC
MODEL:	ENPHASE IQ8X-80-M-US (240V)	MODEL: REC SOL	AODEL: REC SOLAR REC460AA PURE
MAX O/P VOLTAGE:	240V	QTY: 32	WATT: 460W
MAX O/P CURRENT:	1.58A	Voc: 65.30V	lsc: 8.88A
POWER RATING:	380W	Vmp: 54.90V	Imp: 8.38A
CEC EFF:	96.5%		
YTO	32		

# CONTRACTOR INFORMATION



**NEW ENGLAND CLEAN ENERGY** 577 MAIN STREET, HUDSON, MA

01749

PHONE: +1 978 830 3181 CS-102855 TYPE-CSL LICENSE#

#### PHOTOVOLTAIC ROOF **MOUNT SYSTEM**

14.720 kW DC, 12.160 kW AC MARC RESNICK RESIDENCE 50 SARGENT AVE, WINTER HILL, MA 02145

EVERSOURCE METER: 1212241

□-

VISIBLY OPEN, LOCKABLE, FUSED AC DISCONNECT w/70AMP FUSES 240V NEMA-3R

(EXTERIOR)

(EXTERIOR) (N) 125A ENPHASE IQ COMBINER

X-IQ-AM1-240-5 [CRD-PCS NEM] 5 NEMA-3R

ENPHASE IQ GATEWAY ENV2-IQ-AM1-240

(ROOF EQUIPMENT) | (GROUND-LEVEL EQUIPMENT)

 $\bigcirc$ 

 $\Theta$ 

EACH WITH ENPHASE IQ8X-80-M-US (240V)

SOURCE CIRCUIT #1

sc = 12.64 A

-1 STRING OF-

EACH WITH ENPHASE IQ8X-80-M-US (240V) MICROINVERTER -1 STRING OF

(N) 100A

UTILITY:

(E) UTILITY METER

(EXTERIOR) (OVERHEAD)



LINE SIDE TAP AS PER NEC 705.11

(<u>m</u>)

(m)

 $\bigcirc$ 

..n..n 🗓 🗓

J-BOX

SOURCE CIRCUIT #2 8 MODULES

sc = 12.64 A

[e] enphase ENERGY

200A/2P

(E) LOADS

DG223NRB

REVENUE-GRADE PRODUCTION METERING FACTORY INSTALLED (N)

(N) © 20A/2P ① (N) ② 20A/2P (N) © 20A/2P (N) 3 20A/2P

SOURCE CIRCUIT #3

EACH WITH ENPHASE IQ8X-80-M-US (240V)
MICHOINVERTER

EATON **©** 

 $\widehat{\mathbb{E}}$ 

76 N Meadowbrook Drive, Alpine UT 84004 Massachusetts COA #001629764 Signed 9/22/2025 Wyssling Consulting, PLLC

N GND

(E) GROUNDING ELECTRODE

(E) 200A TOP FED MAIN SERVICE PANEL

(INTERIOR)

	DATE 9/2	CREATED BY AF	SCALE	SINGLE LINE DIAGRAN		٦ م	
1	a	Ö	<u> </u> <u>w</u>	<u>                                     </u>		1	
		GROUND	(1) 10 AWG BARE COPPER, EGC	(1) 10 AWG THHN/THWN-2, EGC	(1) 8 AWG THHN/THWN-2, EGC	EXISTING	
	R SCHEDULE	NEUTRAL	NONE	NONE	(1) 4 AWG THHN/THWN-2, Cu	EXISTING	
	CONDUCTOR	CONDUCTOR	(2) 12 AWG ENPHASE Q CABLE PER BRANCH CIRCUIT	(8) 10 AWG THHN/THWN-2, Cu	(2) 4 AWG THHN/THWN-2, Cu	EXISTING	

EXISTING

3/4" EMT 1" EMT

N ო

(N) JUNCTION BOX NEMA 4X (ON ROOF)

SOURCE CIRCUIT #4 lsc = 12.64 A

- 8 MODULES-

CONDUIT SIZE OPEN AIR

TAG ID

0

1 STRING OF

EACH WITH ENPHASE

sc = 12.64 A

# WIRE SIZE CALCULATION MAX BRANCH AC REQUIRED CONDUCTOR AMPACITY 1.58)(8)(1.25) = 15.80A

AWG #10, DERATED AMPACITY: (35)(0.94)(0.7) = 23.03A

FROM TABLE 310.16, 75°C COLUMN

23.03A > 15.80A, THEREFORE AC WIRE SIZE IS VALID.

COMBINED SYSTEM AC REQUIRED CONDUCTOR AMPACITY (1.58)(32)(1.25) = 63.20A PER NEC§690.8(A)

AWG #4, DERATED AMPACITY: (85)X(0.94)X(1) = 79.9A FROM TABLE 310.16, 75°C COLUMN

79.9A > 63.20A, THEREFORE AC WIRE SIZE IS VALID.

NOTE: CONDUIT SHALL BE INSTALLED MIN 7/8" ABOVE ROOF SURFACE

**ALLOWABLE BACKFEED:**MAIN SERVICE PANEL RATING = 200A
MAIN BREAKER RATING = 200A

INVERTER OVERCURRENT PROTECTION:

INVERTER OVERCURRENT PROTECTION = INVERTER O/P CURRENT \* CONTINUOUS LOAD(1.25) = 50.56 \* 1.25

PV OVERCURRENT PROTECTION

THE DESIGNED INTERCONNECTION MEETS THE NEC 705.11 REQUIREMENTS.

PHONE: +1 978 830 3181 CS-102855 TYPE-CSL LICENSE#

MOUNT SYSTEM

14.720 kW DC, 12.160 kW AC MARC RESIDENCE WINTER HILL, MA 02145 50 SARGENT AVE,

ASHRAE 2021 -HIGHEST MONTHLY 2% D.B. DESIGN TEMP.: 32.8°C LOWEST MIN. MEAN EXTREME D.B.: -16.5°C

- INTERCONNECTION NOTES:
  1. INTERCONNECTION SIZING, LIMITATIONS AND COMPLIANCE DETERMINED IN ACCORDANCE WITH [NEC 705.11],
  - GROUND FAULT PROTECTION IN ACCORDANCE WITH [NEC 215.9], [NEC 230.95] AND [NEC 690.5] ALL EQUIPMENT TO BE RATED FOR BACKFEEDING. AND [NEC 690,64]. o σ

### DISCONNECT NOTES:

- DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING LIVE ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS)
  AC DISCONNECT MUST BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH

# BOND AND GROUND RACKING AND MODULES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MINIMUM ONE CONNECTION PER ARRAY

- GROUNDING & GENERAL NOTES:
- 0 m 4
- A SECOND FACILITY GROUNDING ELECTRODE IS NOT REQUIRED PER [NEC 690.47(C)(3)]
  PV INVERTER IS UNGROUNDED, TRANSFORMER-LESS TYPE.
  DC GEC AND AC EGC TO REMAIN UNSPLICED, OR SPLICED TO EXISTING ELECTRODE
  ANY EXISTING WIRING INVOLVED WITH PV SYSTEM CONNECTION THAT IS FOUND TO BE INADEQUATE PER CODE SHALL BE CORRECTED PRIOR TO FINAL INSPECTION.
  SOLADECK OR JUNCTION BOX QUANTITIES, AND PLACEMENT SUBJECT TO CHANGE IN THE FIELD SOLADECK OR JUNCTION BOX DEPICTED ON ELECTRICAL DIAGRAM REPRESENT WIRE TYPE TRANSITIONS.
  AC DISCONNECT NOTED IN EQUIPMENT SCHEDULE OPTIONAL IF OTHER AC DISCONNECTING MEANS IS LOCATED WITHIN 10' OF SERVICE 2
  - 9
- RACEWAYS AND CABLES EXPOSED TO SUNLIGHT ON ROOFTOPS SHOULD BE INSTALLED MORE THAN 7/8" ABOVE THE ROOF USING CONDUIT SUPPORTS.

  TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.

  ALL ROOF CONDUIT WILL HAVE A HEIGHT OF 7/8" œ

# CONTRACTOR INFORMATION



### **NEW ENGLAND CLEAN ENERGY** 577 MAIN STREET, HUDSON, MA

# PHOTOVOLTAIC ROOF



# Wyssling Consulting, PLLC

76 N Meadowbrook Drive, Alpine UT 84004 Massachusetts COA #001629764 Signed 9/22/2025

DATE	9/20/2025
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SCALE	NTS

**ELECTRICAL NOTES PV-7** 

# SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOW SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTE AND REDUCE SHOCK HAZARD IN THE ARRAY

PV SYSTEMS ARE CONNECTED AND SHALL IDENTIFIED RAPID SHUTDOWN SWITCHES IF NOT AT THE SAME LOCATION. [NEC LABEL 5
FOR PV SYSTEMS THAT SHUT DOWN THE
ARRAY AND CONDUCTORS LEAVING THE
ARRAY: SIGN TO BE LOCATED ON OR NO
MORE THAN 3 FT AWAY FROM SERVICE DISCONNECTING MEANS TO WHICH THE INDICATE THE LOCATION OF ALL 590.56(C)(1)(A)]

## **PHOTOVOLTAIC**

MEANS NEC 690.13(B) LABEL 1 AT AC DISCONNECT AC DISCONNECT

**SWITCH FOR SOLAR** RAPID SHUTDOWN PV SYSTEM

AT AC DISCONNECT NEC 690.56(C)(3)

# WARNING

INVERTER OUTPUT CONNECTION

DO NOT RELOCATE
THIS OVERCURRENT DEVICE

FROM THE INVERTER IF TIE IN CONSISTS OF LOAD SIDE CONNECTION TO BUSBAR, NEC 705.12(B)(2) THE BACK-FED BREAKER LABEL 3 PLACED ADJACENT TO

PHOTOVOLTAIC AC DISCONNECT

LABEL 6 AT AC DISCONNECTING MEANS NEC 690.54

32 INVERTER X 1,58 AMP/INVERTER = 50,56AMP



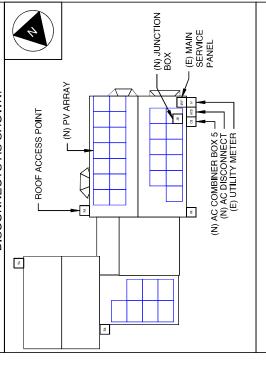
LABEL 4 NEC 705.12(C) & NEC 690.59 (AT MAIN SERVICE PANEL)

### CAUTION:

MULTIPLE SOURCES OF POWER PV SYSTEM DISCONNECTING MEANS LOCATED LEFT SIDE OF METER IN CASE OF PV SYSTEM EMERGENCY CALL NEW ENGLAND CLEAN AT +1 978 830 3181 ENERGY

LABEL 7 NEC 705.10 (AT MAIN SERVICE PANEL)





# 50 SARGENT AVE, WINTER HILL, MA 02145

DIRECTORY

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM. (ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED WITHIN: NEC 690.56(B)&(C), [NEC 705.10])

# CONTRACTOR INFORMATION



**NEW ENGLAND CLEAN ENERGY** 577 MAIN STREET, HUDSON, MA 01749

PHONE: +1 978 830 3181 LICENSE#

CS-102855 TYPE-CSL

#### PHOTOVOLTAIC ROOF MOUNT SYSTEM

14.720 kW DC, 12.160 kW AC MARC RESIDENCE WINTER HILL, MA 02145 50 SARGENT AVE,

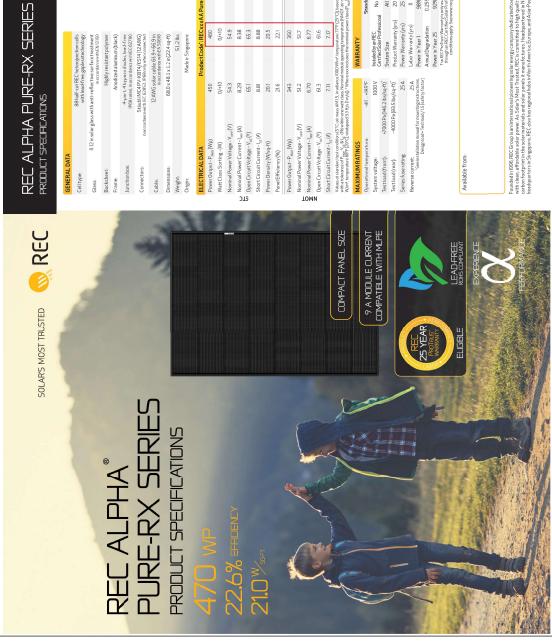


76 N Meadowbrook Drive, Alpine UT 84004 Massachusetts COA #001629764 Wyssling Consulting, PLLC

Signed 9/22/2025

DATE	9/20/2025
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LABELS & PLACARD



CONTRACTOR INFORMATION

lean Energy

REC SOLARS MOST TRUSTED

TVEW ENGLAND

**NEW ENGLAND CLEAN ENERGY** 577 MAIN STREET, HUDSON, MA

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Expert Solar Installer Since 2006



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107 199	375	1				į.		DIAOLES CITITEDED
	*	<b></b>	699		0.8±0.00 (1.1)	40	Measurements in inches	CL
1	1	_			10 +	4	ığ	

14.720 kW DC, 12.160 kW AC MARC RESNICK RESIDENCE

WINTER HILL, MA 02145

50 SARGENT AVE,

PHOTOVOLTAIC ROOF

MOUNT SYSTEM

CS-102855 TYPE-CSL

LICENSE#

	reconstitution of an arches	a manches		
-RX		CERTIFICATIONS		
	470	IEC 61215:2016, IEC 61730:2016, UL 61730	2016, UL 61730	
	95.75	IEC 62804 PID		
	n1+/n	IEC 61701 Salt Mist	ist	
	55.4	IEC 62716 Ammor	Ammonia Resistance	
	3.49	ISO11925-2 Ignitab	Ignitability (EN 13501-1 Class E)	
	12	IEC 62702 Dynam	Dynamic Mechanical Load	
	0.00	IEC 61215-2:2016 Hailsto	Hailstone (35mm)	
	3.95	IEC 62321 Lead-fr	Lead-free acc. to RoHS EU 863/2015	2015
	21.0	UL 61730 Fire Type 2	pe 2	
	22.6	ISO14001, ISO9001, IEC 45001, IEC 62941	01, IEC 62941	
	358		<u> </u>	
	32.2	TEMPERATIBE PATINGS*	Leadfree	
	5.86	Nominal Medite Operating Temperature		44°C(±2°C)
	51.8	Temperature coefficient of P		0.24 %/°K
	7.23	Temperature coefficient of V <sub>oc</sub> :		-0.24 %/°K
don a mass ) at Si	d on a production spread mass AM 'S, irradiance 800 ) at STC above.	Temperaturecoefficient of I <sub>sc</sub> : The temperature	oefficients stated an	0.04 %/*K
		<b>DELIVERY INFORMATION</b>	z	
ard	REC ProTrust	Panalsparpale:		33
	Yes Yes	Panelsper 40 ft CP/high cube container:		594 (18 pallets)
	<25kW 25-500 kW	Panelsper53ft:ruck	792(2	792 (24 pallets)
	25 25	OILOWALD TO THE OF THE OF		
	25 25	CON CIGILI BELIANION		Ī.
	75 10	Typical low irraciance performance of module at STC:	mance of module at STC	

REC SolarPTE, LTD. 20 Tuas Scuth Ave. 14 Singapore637312 post@recgroup.com

REC MAKERGEOUD.COM

DATE	9/20/2025
CREATED BY	ART
SCALE	NTS

MODULE SPEC SHEET

### **ENPHASE**

DATA SHEET NORTH AMERICA

nput data (DC)

Commonly used module pairings<sup>6</sup>

Module compatibility

MPPT voltage range

Operating range

# **Q8X Microinverter**

IQ8X Microinverter is the latest addition to this family, designed to support PV modules with high output DC voltage and cell counts, such as 80-halfpower conversion capability to convert DC power to AC power efficiently. microgrid-forming<sup>4</sup>, software-defined microinverters with split-phase Our newest IQ8 Series Microinverters<sup>1,2,3</sup> are the industry's first cut cells, 88-half-cut cells, and 96-cells



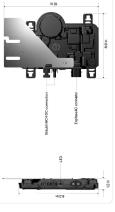




Minimum/Maximum start voltage

Maximum input DC voltage

Key specifications	IQ8X-80-M-US/ IQ8X-80-M-DOM-US @ 240 V	IC8X-80-M-JS/ IQ8X-80-M-DOM-US @ 208 V
Peak output power	384 VA	366 VA
Nominal grid voltage (L-L)	240 V, split-phase (L-L), 180°	208 V, single-phase (L-L), 120°
Nominal frequency	60 Hz	60 Hz
CEC weighted efficiency	96.5%	96.5%
Maximum input DC voltage	79.5 V	79.5 V
MPPT voltage range	43-60 V	43-60 V
Maximum module I <sub>sc</sub>	13 A	13 A



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PV array configuration

- Lightweight and compact with plug-and-play connectors
- Power line communication (PLC)

Faster installation with simple two-

wire cabling

Maximun continuous output powe

Peak output power **Dutput data (AC)** 

Nominal voltage (L-L)

≪ Reliable

240, split-phase (L-L), 180° 208, single-phase (L-L), 120°7

211-264 1.58

1,73

47-68

9

¥ Ξ

Maximum continuous output current Minimum and maximum grid voltage

2.70

ŝ

9

8

μA

- Produces power even when the grid is down<sup>4</sup>
- Industry-leading limited warranty of More than one million cumulative hours of testing up to 25 years
  - Class II double-insulated enclosure

-40°C to 65°C (-40°F to 149°F)

Ambient temperature range

Optimized for the latest high-powered PV modules

AC short-circuit fault current over three cycles Maximum units per 20 A (L-L) branch sircuit 9

Extended frequency range

Nominal frequency

- Microgrid-forming
- Complies with the latest advanced Remote automatic updates for :he latest grid requirements grid support

Overvoltage class AC port

Total hamonic distortion

AC port sackfeed current

Power factor setting

Grid-tied power factor (adjustable)

- Configurable to support a wide range of grid profiles Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB 3'<sup>rd</sup> Ed.)

- oberadioned POJAC may be a proper plane in the phase bletwork Portection Relay (BF-3P-206-MJ) and is, there obtained for use with Enghase investments if you win to finally single-phase investment across three phases. The phase is the phase investment of your desired that the world be desired by the utility and the phase is the phase who desired performed in required by the utility and before to be often experimentation define the number of innormations per barnch in your area.

# CONTRACTOR INFORMATION



To meet compatibility, PV modules must be within the

DOM-US5@ 208 V

DOM-US @ 240 V

Units

**NEW ENGLAND CLEAN ENERGY** 577 MAIN STREET, HUDSON, MA 01749

> 25-79.5 30-79.5

79.5

9

9 Ŋ

Maximum input DC short-circuit current Maximum continuous input DC current

Overvoltage class DC port DC port backfeed current

Maximum module I<sub>sc</sub>

43-60

PHONE: +1 978 830 3181 CS-102855 TYPE-CSL LICENSE#

PHOTOVOLTAIC ROOF

# MOUNT SYSTEM

14.720 kW DC, 12.160 kW AC MARC RESNICK RESIDENCE WINTER HILL, MA 02145 50 SARGENT AVE,

Ungrounded array; no additional DC side protection required;

ΜA

AC side protection requires a maximum of 20 4 per branch

IQ8X-80-M-US/IQ8X-80-M-

DOM-US<sup>€</sup> @ 208 V

DOM-US @ 240 V

Units

384

#### 9/20/2025 ART NTS INVERTER SPEC SHEET CREATED BY SCALE DATE

67.0

97.3 96.5

26

Nighttime power consumption

**CEC** weighted efficiency

Peak efficiency

0.85 leading ... 0.85 lagging

96.5 7

Mecharical data	IQ8X-80-M-US/IQ8X-80-M- IQ8X-80-M-US/IQ8X-80-M-DS/IQ8X-80-M-DOM-US @ 240 V	s/IQ8X-80-M- ' @ 208 V	Ŏ
Ambient temperature range	-40°C to 65°C (-40°F to 149°F)		
Relative humidity range	4% to 100% (condensing)		
DC connector type	Stäubli MC4		
Dimensions (H × W × D)	212 mm (8.3") × 175 mm (6.9") × 30.2 mm (1.2"); 1.1 kg (2.43 lb)	1.1 kg (2.43 lb)	
Cooling	Natural convection—no fans		
Approved for wet locations	Yes; PD3		
Enclosure	Class II double-insulated, corrosion-resistant polymeric enclosure	rt polymeric	
Environmental category/UV exposure rating	NEMA Type 6/Outdoor		

Compliance	IQ8X-80-M-US/IQ8X-80-M- DOM-US @ 240 V	IQ8X-80-M-US/IQ8X-80-M- DOM-US @ 240 V DOM-US ® @ 208 V
Certifications	CA Rule 21 (UL 1741-SA), UL 621t 3 <sup>rd</sup> Ed.), FCC Part 15 Class B.IC C22.2 NC This productis UL Listed as PV conforms with NEC 2014, NEC section 690.12 and C22.1-201 of PV systems for AC and DO accoording to the manu	CA Rule 21 (UL 1741-SA), UL 62109-1, IEEE 1547:2018 (UL 1741-SB 3rd Ed.), FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.NO.1071-01.  This productis UL Listed as PV rapid shutdown equipment and conforms with NEC 2014, NEC 2017, NEC 2020, and NEC 2023 section 6901, 2 and C221-2018 Rule 64-218 rapid shutdown of PV systems for AC and DC conductors when installed according to the manufacturer's instructions.

# components of the Enphase Energy System



solution that integrates seamlessly system, providing reliable backup management for maximum performance and energy savings. All-in-one AC-coupled storage power and intelligent energy with your solar energy



#### IQ System Controller

connects the home to the grid power, IQ Batteries, generator and solar PV with microinverters. The IQ System Controller





The IQ Combiner/IQ Gateway is

a device that performs energy management, provides internet connectivity, and integrates with the IQ Series Microinverters to provide complete control and insights into the Enphase Energy System.



rated electrical wire, allowing it to be cut, spliced, and extended as needed. faster, simpler, and more reliable length 12-AWG cable with pre-installed connectors for IQ Microinverters that support installations. The cable is handled like standard outdoor-

# CONTRACTOR INFORMATION

Lean Energy O ENGLAND

**NEW ENGLAND CLEAN ENERGY** 577 MAIN STREET, HUDSON, MA 01749

PHONE: +1 978 830 3181 CS-102855 TYPE-CSL LICENSE#

14.720 kW DC, 12.160 kW AC MARC RESNICK RESIDENCE PHOTOVOLTAIC ROOF MOUNT SYSTEM

50 SARGENT AVE, WINTER HILL, MA 02145

9/20/2025 ART NTS INVERTER SPEC SHEET CREATED BY SCALE DATE

PV-10.1

October 2024	Updated a footnote of the specification
August 2024	Added the SKU 'IQ8X-80-M-DOM-US'.
February 2024	Updated the information about IEEE 154 requirements.
November 2023	Preliminary release - public.
October 2023	Preliminary release.
	Previous releases.

DSH-00185-4.0

DSH-00185-3.0

DSH-00185-5.0

DSH-00185-2.0

DSH-00185-1.0

nation about IEEE 1547 interconnection standard

Updated information on backward compatibility with IQ7 Series

December 2024

DSH-00185-6.0

Revision history

of the specifications table





# DATA SHEET 10 Combiner 5/5C

#### MODEL NUMBER

IQ Combiner 5 (X-IQ-AM1-240-5/ X-IQ-AM1-240-5-HDk)

O Compline E with I/O Stateway printed circuit board for integrated rewrine-grade PV production metering Mis (2020.0-0.5%), consumption moritoring (2.25%), and IO Buttery monitoring (2.25%), includes a silver solar shield to deflect heat.

Buttery monitoring (2.25%) includes a silver solar shield to deflect heat.

Ann F204—F404—F404 includes as fercy installed I/O-down fix to organize lew with all the origin troates mentioned in the Accessories and Replacement Parts section.

IO-AMI-240-5C-HDK includes a factory installed hold-down kit compatible with all the circuit breakers mentioned in the Accessories and Replacement Parts section. IO Combiner 5C with IO Sateway printed circuit board for integrated -evenue-grade PV production meeting (12.05%), and Distory monitoring (12.05%), and Distory monitoring (12.05%), and Caletry monitoring (12.05%), includes Emphase Mobile Connect cellular modem (CELIMODEM-MT-06-SP-05); Includes a pilver solar shield to deflice freat.

IQ Combiner 5C (X-IQ-AM1-240-5C / X-IQ-AM1-240-5C-HDK)

IC Gateway is the platform for total energy management for comprehersive, remote maintenance, and management of the Enphase Energy System

IQ Gateway printed circuit board

IQ Gateway breacer

Busbar

Consumption CT Production CT IQ Battery CT

CTRL board

Includes IQ Gateway for communication and control

Includes Enphase Mobile Connect (CELLMODEM-M1-06-SP-05,, only with IQ Combiner 5C Supports flexible networking: Wi-Fi,

Provides production metering (revenue grade) and consumption

Ethernet, or cellular

WHAT'S IN THE BOX

80 A busbar with support for one IO Gateway breaker and four 20 A breakers for installing IO Series Microinverters and IO Battery 5P Crcuit breake; 2-pole, 10 A/15 A

Two consumption metering clamp CTs, shipped with the box, accurate up to ±2.5% Control board for wired communication with IQ System Controller 3/36 and the One battery metering clamp CT, shipped with the box, accurate up to ±2.5% Pre-wired revenue-grade solid-core CT, accurate up to ±0.5%

46-based LTE-M1 cellular modem (CELLMODEM-M1-06-SP-05) with a 5-year T-Mobile data plan IC Battery 5P Enphase Mobile Connect (only with IQ Combiner 5C)

Spare control neaders for the COMMS-KIT-2 board

# ACCESSORIES AND REPLACEMENT PARTS (NOT INCLUDED, ORDER SEPARATELY)

Supports Eatrn BR2XX, Siemens O2XX, and GE/ABB THOL2TXX Series circuit breakers (IX represent 10, 18, 20, 34, 04, 50, on 60). Also supports Earnn BR2ZGB, BR23GB, and RX2AGB circuit breakers compatible with the hold-down kit. 46-based LTE-M1 cellular modem with a 5-year T-Mobile data plan 40-based LTE-M1 cellular modem with a 5-year AT&T data plan Circuit breakers (off-the-shelf) CELLMODEM-MI-06-SP-05 CELLMODEM-M1-06-AT-05

BRK-10A-2-240V, BRK-15A-2-240V, BRK-20A-2P-240V, BRK-15A-2P-243V-B, and BRK-20A-2P-240V-B (more details in the "Accessories" section) Circuit breakers (provided by Enphase) XA-SOLARSHIELD-ES

Hold-down kitcompatible with Eaton BR-B Series circuit breakers (wi:hscrews). Not required for X-IQ-AMI-240-5-HDK/X-IQ-AMI-240-5C-HDK. IQ Gateway replacement printed circuit board (PCB) for IQ Combiner 5/5C Replacement solar shield for IQ Combiner 5/5C XA-ENV2-PCBA-5 X-IQ-NA-HD-125A

Supports up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)

Mounts to one stud with centered brackets

Easy to install

Supports bottom, back, and side conduit entries

Upto four 2-pole Eaton BR, Siemens Q, or GE/ABB THQL Series distributed generation (DG) breakers cnly (not included) Replacement COMMS-KIT-2 printed circuit board (PCB) for IQ Combiner 5/5C 120/240 VAC or 120/208 VAC, 60 Hz 10 cAIC Maximum continuous current rating (input from PV/ Branch circuits (solar and/or storage) ELECTRICAL SPECIFICATIONS System voltage and frequency XA-COMMS2-PCBA-5 Fault current rating Busbar rating storage) Sating

A plug-and-play industrial-grade cell my cellular service in the irstallation area.

200 A solid core pre-installed and wired to IQ Gateway

10 A or 15 A rating GE/Siemens/Eaton included

80 A of distributed generation/95 A with IQ Gateway breaker included

Maximum total branch circuit breaker rating (input)

Production metering CT

IQ Gateway breacer

# Q Combiner 5/5C

The IQ Combiner 5/5C consolidates interconnection equipment into a single enclosure and streamlines IQ Series Mulcroinverters and IQ Gateway intradilation by prodriging a consistent, evides dealine for feet administrations. IQ Combine 5/5C uses wired control communication and is compatible with IQ System Controller 3/3G and IQ Battery 5P.

The IQ Combiner 5/5C, IQ Series Microinverters, IQ System Controller 3/3G, and Q Battery 5P provide a complete grid-agnostic Enphase Energy System.



IO System Controller 3/36 pervioles mortally and pervioles mortally interaction devices (MID) functionality by automatically detecting grid failures and seamlessly transitioning the home energy system from grid power backup power. The high-powered smart grid-ready IQ Series Microinverters (IQ6, IQ7, and IQ8 Series) simplify the installation process.

IQ Series Microinverters



Helps prioritize essential appliances during a grid outage to optimize energy consumption and prolong battery life. O Load Controller

IQ Battery 5P Fully integrated AC battery system. Includes six field-replaceable IQ8D-BAT Microinverters.

Durable NRTL certified NEMA type 3R

Reliable

Bluetooth-based Wi-Fi provis oning

for easy Wi-Fi setup

· Factory installed hold-down kit 80 A total PV branch circuits

2-year labor reimbursement program coverage included for IQ Combiner SKUs'

UL1741 Listed

5-year limited warranty





For country-specific warranty information, see the https://enphase.com/instalers/resources/warranty page. 2.024 Enphase Energy, All rights reserved. Enphase, the eard CC logos. IC, and certain other marks listed a ttps://emphase.com/trademark-ussge-guidelines are trademarks of Enphase Energy, Inc. Inthe U.S. and other

5-year limited warranty year limited

IQC-5-5C-DSH-00007-6.0-EN-US-2024-09-30

IQC-5-5C-DSH-000C7-3.0-EN-US-2024-09-30

# CONTRACTOR INFORMATION



**NEW ENGLAND CLEAN ENERGY** 577 MAIN STREET, HUDSON, MA 01749

PHONE: +1 978 830 3181 CS-102855 TYPE-CSL LICENSE#

PHOTOVOLTAIC ROOF MOUNT SYSTEM

MARC RESNICK RESIDENCE 14.720 kW DC, 12.160 kW AC WINTER HILL, MA 02145 50 SARGENT AVE,

9/20/2025 ART CREATED BY SCALE DATE

**PV-11** 

COMBINER SPEC SHEET

		<
ACCESSORIES AND REPLACEMENT PARTS (NOT INCLUDED, ORDER SEPARATELY)	JDED, ORDER SEPARATELY)	¥
Consumption monitoring CT (CT-200-CLAMP)	A pair of 200 A clamp-style current transformers is included with the box	
IQ Battery metering CT	200 A clamp-style current transformer for IQ Battery metering, included with the box	
MECHANICAL DATA		
Dimensions (W × H × D)	37.5 cm × 49.5 cm × 13.8 cm (14.75° × 19.5° × 6.63°). Height is 53.5 cm (2106°) with mounting brackets.	
Weight	7.5 kg (16.5 lb)	4
Ambient temperature range	-40°C to 46°C (-40°F to 115°F)	Ď
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 AMG copper conductors     60 A breaker branch input 4 to 1/0 AMG copper conductors     Main lag combined output: 0 to 2/0 AWG copper conductors     Main and ground: 14 to 1/0 coper conductors     Aways follow local code requirements for conductors sizing	
Communication (in-premise connectivity)	Built-in CTRL board by wired communication with the IQ Battery 5P and the IQ System Controllers 3/45. Integrated power line communication for IQ Series Commonication for IQ Series Commonwealth.	
Altitude	Up to 2,6C0 meters (8,530 feet)	6
COMMUNICATION INTERFACES		
Integrated Wi-Fi	802.11b/g/n (dual band 2.4 GHz/5 GHz) for connecting the Enphase Cloud through the internet	

### ccessories



5-year data plan (CELLMODEM-MI-06-SP-05 for T-Mobile and CELLMODEM-MI-06-AT-05 for AT&T) 4G-based LTE-M1 cellular modem with a

Mobile Connect



BRK-10A-2-240V Circuit breaker, 2-pole, 10 A,

BRK-20A-2P-240V Circuit breaker, 2-pole, 20A,

#### CT-200-CLAMP

200 A clamp-style consumption and battery metering CT with <2.5% error rate (replacement SKU)

Circuit breakers

CONTRACTOR INFORMATION

Eaton BR210 BRK-15A-2-240V Circuit breaker, 2-pole, 15 A, Eaton BR215

Eaton BR220 BRK-15A-2P-240V-B Circuit breake, 2-pole, 15 A, Eaton BR215B with hold-down kit support BRR-20A-2P-240V-B Greault breaker, 2-pole, 20 A, Eaton BR220B with hold-down kit support







Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included) for connecting to the Enphase Cloud through the internet.

BLE4.2, 10 m range to configure Wi-Fi SSID

IO m (32.8 feet)

Wi-Fi range (recommended)

CELLMODEM-MI-06-SP-05 or CELLMODEM-MI-06-AT-05 (included with the IQ Combiner 5C)

Cellular/Mobile Connect:

Ethernet

Digital I/O

USB 2.0

Mobile Comnect, COMIMS-KIT-01 for IQ Battery 3/31/10/101, COMMS-KIT-02 for IQ Battery 5P

Digital input/output for grid operator control

For connection between the IQ Gateway and a mobile device running the Enphase Installer App Up to two Consumption CTs, one IQ Battery CT, and one Production CT

See https://developer-v4.enphase.com

90-110 kHz

Power line communication

Web API Local API

Metering ports

Access point (AP) mode

See Guide for local API







DATE	9/20/2025
CREATED BY	ART
SCALE	NTS

UL 1741, CANVCSA C22.2 No. 107.1 Title 47 CFR, Part 15, Class B, ICES 003;
NON-2006-SCFL-2016, UL 61010-1, CANVCSA, 22.2 No. 61010-1, IEEE 1547. 2018 (UL 1741-5B, 376 E), IEEE 2036, CSCSP Compiliant, Production metering ANSI C12.20 accuracy class 0.5 (PV production)

IQ Combiner with IQ Gateway

ENCHARGE-3-IP-NA, ENCHARGE-10-IP-NA, ENCHARGE-3T-IP-NA, ENCHARGE-10T-IP-NA

EP200G101-M240US01

IQ System Controller 2

COMMS-KIT-012

IQ Battery

Q System Controller

IQ6, IQ7, and IQ8 Series Microinverters EP200G101-M240US00 SC200D111C240US01, SC200G111C240US01

IQ System Controller 3

IQ Battery

COMMS-KIT-023

\*For information about IQ Combiner 5/5C compatibility with the 2<sup>ma</sup> - IQ Combiner 5/5C comes pre-eculpped with COMMS-KII-02.

IQBATTERY-5P-1P-NA

COMBINER SPEC SHEET

PV-11.1

IQC-5-5C-DSH-00007-6.0-EN-US-2024-09-30

# STRONGHOLD" | BUTYL



# Unirac's STRONGHOLD' Butyl is efficient, dependable, and optimized for UNIRAC's NXT UMOUNT' system.

to the roof. In addition, the butyl, used throughout the roofing and solar industries for its reliability, conforms to the screws The pre-applied butyl pad removes the need for additional flashing. Just peel the liner, place the attachment, and fasten it and roof for a robust, dependable seal with no extra work! Couple this with the NXT UMOUNT" system, and you have a highly reliable, easy-to-install system with integrated wire management.



#### KITTED WITH

ONE (1) STRONGHOLD' Burly direct-to-dock TWO (2) sorews for rafter installation ONE (1) NXT Rail Clamp attachment with pre-applied burly factor. (Additional serves for direct-to-deck (EXIZ) particles for shallong evaluable), applications swallable.)

# STRONGHOLD" | BUTYL



lean Energy

**NEW ENGLAND CLEAN ENERGY** 577 MAIN STREET, HUDSON, MA

PHONE: +1 978 830 3181

01749

Expert Solar Installer Since 2006

CONTRACTOR INFORMATION

NEW ENGLAND

# SIMPLIFIED FLASHLESS SOLUTION

- One-step Butyl application
- Reliable waterproofing without messy sealant
- Eliminate roof disturbance

Minimize labor

#### **OPTIMIZED FOR NXT UMOUNT, UNIRAC'S OPEN CHANNEL RAIL SYSTEN**

- Open slot design for ease of rail connectivity with included
  - STRONGHOLD" NXT rail clamp

14.720 kW DC, 12.160 kW AC MARC RESNICK RESIDENCE

WINTER HILL, MA 02145

50 SARGENT AVE,

PHOTOVOLTAIC ROOF

MOUNT SYSTEM

CS-102855 TYPE-CSL

LICENSE#

- STRONGHOLD" Butyl combined with the NXT UMOUNT system make installation and wire management a breeze
  - UL Certified with NXT UMOUNT

### **DUAL MOUNTING OPTIONS**

- Pre-attached butyl pad: Simply peel, stick, and fasten with the two (2) included screws for rafter mount
- For direct-to-deck applications, additional decking screws are available

#### ADDITIONAL BENEFITS

- Mill and Dark Finishes
- Option for extra cross-course butyl patches
- Competitively priced with standard rafter attachments

# **3**

JNIRAC CUSTOMER SERVICE MEANS THE HIGHEST LEVEL OF PRODUCT SUPPORT

#### EXCELLENCE

#### BANKABLE **E**

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### BANKABLE WARRANTY

Don't leave your project to chance, UNIRAC has the financial strength to back our products and reduce your risk. Have peace of mind knoving you are receiving products of exceptional quality. STRONGHOLD' products

UNIBAC is the only PV mounting vandor with ISO exitifications for 9001:2015, 14001:2015 and 0HSAS 19001:2001, which means we deliver the highest standards or fit, form, and function. These certifications demonstrate or costlence and commitment to first class business practices.

questions & addressing issues in real time. An online library of documents including engineering reports, stamped letters and technical data sheets greatly simplifies your permitting.

JNIRAC's technical support team is dedicated to answering

TECHNICAL SUPPORT

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**CERTIFIED QUALITY PROVIDER** 

#### 9/20/2025 ART NTS CREATED BY SCALE DATE

MOUNT SPEC SHEET

**PV-12** 

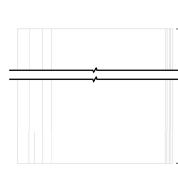
FOR QUESTIONS OR CUSTOMER SERVICE CONTACT: 505-242-6411 | SALES@UNIRAC.COM | WWW.UNIRAC.COM

PROTECT YOUR REPUTATION WITH QUALITY RACKING SOLUTIONS BACKED BY ENGINEERING EXCELLENCE AND A SUPERIOR SUPPLY CHAIN Fordances

#### CONTRACTOR INFORMATION lean Energy **NEW ENGLAND CLEAN ENERGY** 577 MAIN STREET, HUDSON, MA 9/20/2025 14.720 kW DC, 12.160 kW AC MARC RESNICK RESIDENCE Expert Solar Installer Since 2006 PHOTOVOLTAIC ROOF 50 SARGENT AVE, WINTER HILL, MA 02145 NTS PHONE: +1 978 830 3181 ART NEW ENGLAND CS-102855 TYPE-CSL MOUNT SPEC SHEET MOUNT SYSTEM CREATED BY LICENSE# SCALE 01749 DATE RAIL CLAMP ASSY SHEET **S-01A-UN** PRODUCT PROTECTED BY ONE OR MORE US PATENTS DRAWING NOT TO SCALE ALL DIMENSIONS ARE LEGAL NOTICE NOMINAL 2X #14-14 TYPE AB SCREW, HWH, SS W/ #14 EPDM WASHER 4X OPTIONAL SCREWS DTD BUTYL ASSY STRONGHOLD BUTYL ATT KIT #14S MILL STRONGHOLD BUTYL ATT KIT #14S DARK SHOWN WITH ADDITIONAL SCREWS FOR DTD; OPTIONAL SCREWS NOT INCLUDED IN ATTACHMENT KIT; PRODUCT LINE: | NXT UMOUNT SH BUTYL ATTACHMENT DTD #14-14 X 3.0 TYPE AB REVISION DATE: | 2/29/2024 DRAWING TYPE: | PARTS ½" BUT?L DESCRIPTION DESCRIPTION: PART # TABLE $-2\frac{1}{2}$ "-1411 BROADWAY BLVD. NË ALBUQUERQUE, NM 87102 LSA PHONE: 505.242.6411 WWW.UNIRAC.COM SHBUTYLM2 SHBUTYLD2 003251W 1½6" ADJUSTMENT P/N SHEET 1-01A-UN PRODUCT PROTECTED BY ONE OR MORE US PATENTS DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL LEGAL NOTICE 2X #14-14 TYPE AB SCREW, -HWH, SS W/ #14 EPDM WASHER RAIL CLAMP ASSY-DTD BUTYL ATT ASSY STRONGHOLD BUTYL ATT KIT #14S MILL STRONGHOLD BUTYL ATT KIT #14S DARK PRODUCT LINE: | NXT UMOUNT SH BUTYL ATTACHMENT REVISION DATE: 7/14/2023 **PARTS** ½" -BUTYL DESCRIPTION DRAWING TYPE: DESCRIPTION: PART # TABLE -21/2" 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM **#**UNIRA **SHBUTYLM2** SHBUTYLD2 $1\%_{6}$ " ADJUSTMENT ΡN

PV-12.1

	LENGTH	84"	84"	168"	168"	208"	208"	246"	246"	171.50"	171.50"	96	96	185"	185"
PART # TABLE	DESCRIPTION	NXT UMOUNT RAIL 84" MILL	084RLD1 NXT UMOUNT RAIL 84" DARK	NXT UMOUNT RAIL 168" MILL	NXT UMOUNT RAIL 168" DARK	208RLM1 NXT UMOUNT RAIL 208" MILL	NXT UMOUNT RAIL 208" DARK	NXT UMOUNT RAIL 246" MILL	246RLD1 NXT UMOUNT RAIL 246" DARK	171RLM1 NXT UMOUNT RAIL 171" MILL	NXT UMOUNT RAIL 171" DARK	096RLM1 NXT UMOUNT RAIL 96" MILL	096RLD1 NXT UMOUNT RAIL 96" DARK	NXT UMOUNT RAIL 185" MILL	185RLD1 NXT UMOUNT RAIL 185" DARK
	P/N	084RLM1	084RLD1	168RLM1	168RLD1	208RLM1	208RLD1	246RLM1	246RLD1	171RLM1	171RLD1	096RLM1	096RLD1	185RLM1	185RLD1



ļ-	1 <sup>11</sup> / <sub>16</sub> "		1
7%"	-28-	-17/6"	-1¾"
[\{\begin{align*} \left\} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \			

PRO	DRA	DES	REV
	1411 BROADWAY BIVD NE	ALBUQUERQUE, NM 87102 USA	WWW.UNIRAC.COM

ODUCT LINE: NXT UMOUNT	NXT UMOUNT	DRAWING NOT TO SCALE
AAWING TYPE: PART DETAIL	PART DETAIL	NOMINAL
SCRIPTION:	RAIL	PRODUCT PROTECTED BY
VISION DATE: 2/29/2024	2/29/2024	LEGAL NOTICE

109-UN

-LENGTH ^-

# CONTRACTOR INFORMATION



577 MAIN STREET, HUDSON, MA 01749 PHONE: +1 978 830 3181 LICENSE# CS-102855 TYPE-CSL

PHOTOVOLTAIC ROOF MOUNT SYSTEM 14.720 kW DC, 12.160 kW AC MARC RESNICK RESIDENCE 50 SARGENT AVE, WINTER HILL, MA 02145

### 8/20/2025    ATED BY ART   ART	DATE CREATED BY SCALE	9/20/2025 ART NTS
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RAIL SPEC SHEET

#### PV-13

SHEET