













ENPHASE

**WARNING**  
This device contains high voltage components. Do not touch or attempt to repair this device. For more information, see the user manual.

**CAUTION**  
This device is not to be used in wet or damp locations. For more information, see the user manual.

**WARNING**  
This device is not to be used in areas where flammable or explosive gases are present. For more information, see the user manual.

**WARNING**  
This device is not to be used in areas where lightning strikes are frequent. For more information, see the user manual.

**WARNING**  
ATTENTION: THIS EQUIPMENT IS NOT TO BE USED FOR ANY OTHER PURPOSE THAN THAT SPECIFIED BY THE MANUFACTURER.

**WARNING**  
Rapid Shutdown Switch for Solar PV System

Professional Listed  
UL E100000

UL E100000

UL E100000

UL E100000

UL E100000

Two metal electrical components connected by a curved metal conduit. Each component has a rectangular opening, possibly for a fuse or indicator light.

Grey electrical control box with a large circular meter on top. The meter has a glass cover and some text on it. A blue-handled switch is visible on the right side of the box.

Grey electrical control box with a louvered front door. Several black cables are connected to the bottom of the box.

Grey PVC pipe with a green electrical component (possibly a surge protector or terminal block) attached to its side. A black cable runs along the pipe.



 **WARNING**

**ELECTRIC SHOCK HAZARD**


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

**PHOTOVOLTAIC SYSTEM**

 **AC DISCONNECT** 

RATED AC OUTPUT CURRENT 21.0 A

NOMINAL OPERATING AC VOLTAGE 240 V

 **WARNING**

THIS EQUIPMENT FED BY MULTIPLE  
SOURCES, TOTAL RATING OF ALL  
OVERCURRENT DEVICES, EXCLUDING  
MAIN SUPPLY OVERCURRENT  
DEVICE, SHALL NOT EXCEED  
AMPACITY OF BUSBAR.

 **WARNING**

**PHOTOVOLTAIC SYSTEM  
COMBINER PANEL**

**DO NOT ADD LOADS**

 **WARNING**

MAIN DISTRIBUTION UTILITY DISCONNECTION  
INFORMATION: THIS EQUIPMENT SHALL BE  
PROTECTED FROM OVERCURRENT BY A  
MAIN DISTRIBUTION DISCONNECTING DEVICE  
(as defined in IEEE Std 1547-2003, 15.4.7.1)





Iron  
Croskey  
165 Edgewood Dr  
11-16-27 JLC





Jon  
Casky  
165 Edgecombe dr  
11-16-23  
J.L

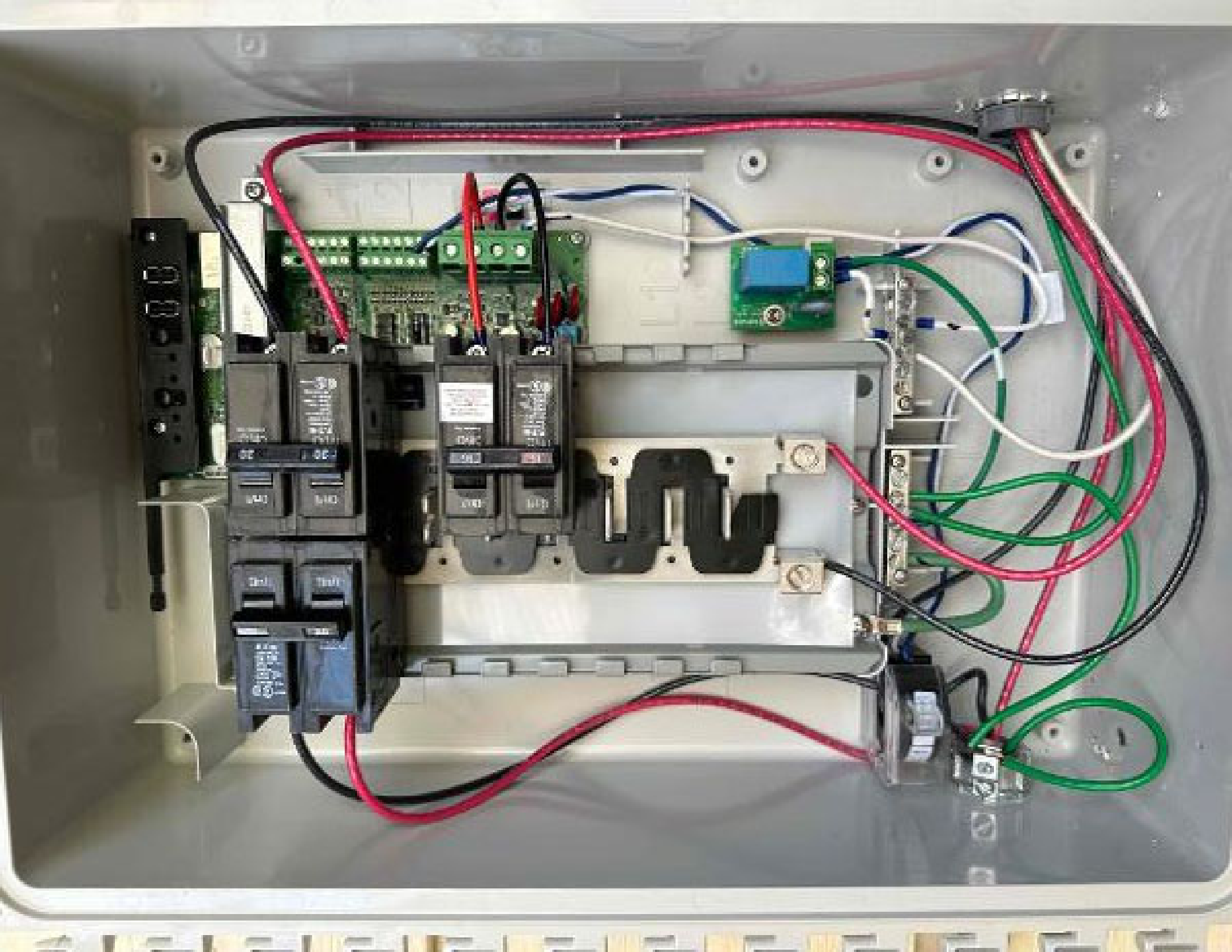








**DANGER / PELIGRO**  
HAZARD OF ELECTRICAL SHOCK  
SERVICE BY UTILITY AUTHORIZED PERSONNEL ONLY  
DO NOT REPAIR OR REMOVE THIS LABEL  
PELIGRO DE DESCARGA ELECTRICA O DE  
SERVICIO POR PERSONAL AUTORIZADO UNICAMENTE  
NO REPARAR NI QUITAR ESTE ETIQUETA







**¡CUIDADO!**  
**¡PELIGRO!**

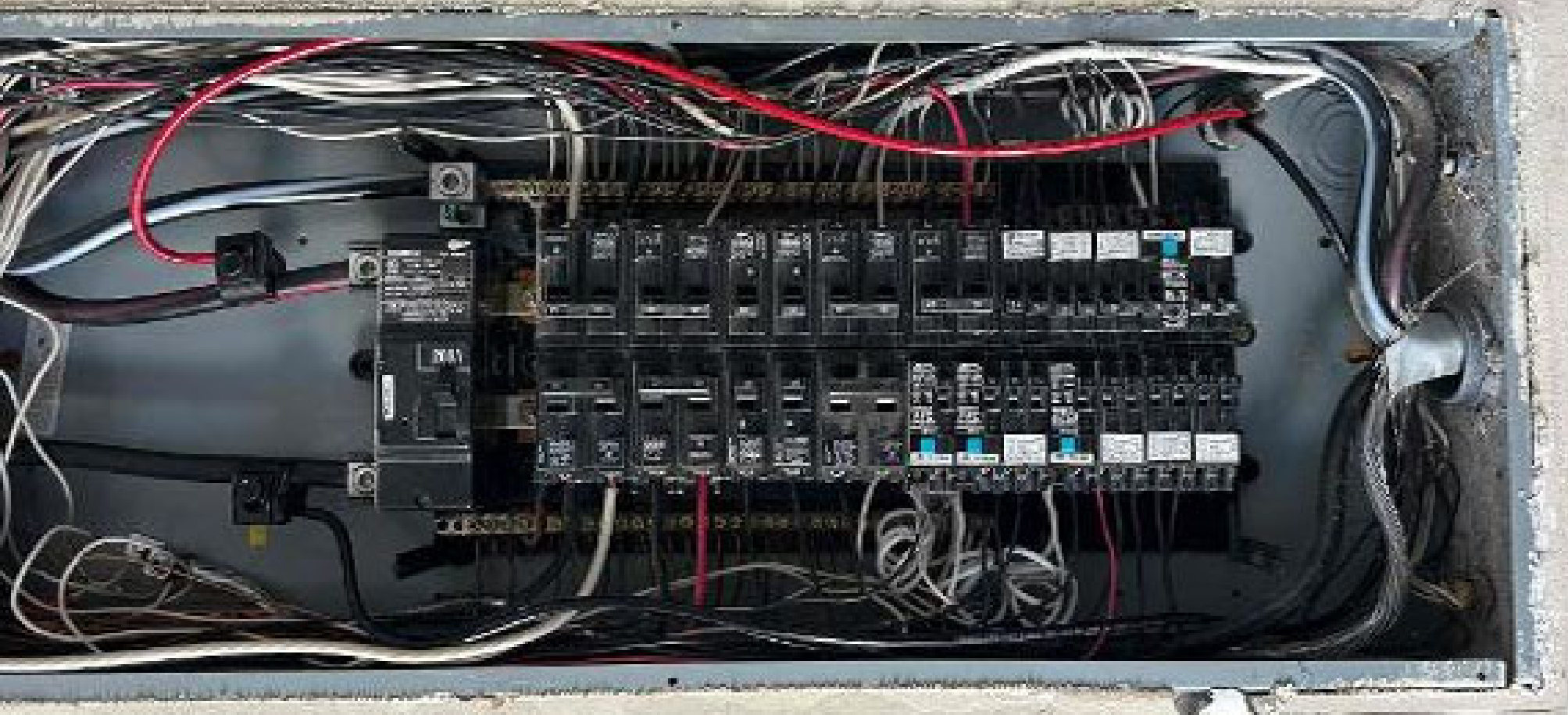
Este equipo es un dispositivo de control de potencia que debe ser instalado y mantenido por personal calificado. No toque los terminales o componentes internos cuando el equipo esté energizado. Siempre desenergice el equipo antes de realizar cualquier mantenimiento o reparación.

Componente	Valor
Fusible 1	10A
Fusible 2	10A





Jon  
Casky  
165 Edgemoor dr  
11-16-27 J.L



## IQ GATEWAY 1

### IQ Gateway

202335079753

### IQ Microinverters & Array

- ✓ Scanned 16/16
- ✓ Detected 16/16
- ✓ Communicating 16/16
- ✓ Array created 2
- ✓ Producing power 16/16
- ⚠ Profile set 0/16 (IEEE 1547 default 2015-10-11)

[Please wait for grid profiles to propagate to all microinverters.]

[Add site notes and pictures](#)

# Update IQ Gateway Software

IQ Gateway 202335079753



IQ Gateway successfully connected to Enphase Cloud and Installer Toolkit



IQ Gateway must be connected to the Enphase Cloud via both Cellular modem and Wi-Fi Ethernet for Enphase Energy System commissioning.

## IQ Gateway Connectivity Status



Wi-Fi

192.168.1.10

Connected



Ethernet





### Combiner LED & buttons quick reference guide



- Combiner LED**
  - Green when the module is energized (Off-grid or island)
  - Red when the module is not energized (On-grid or AC)
  - Red when the module is not energized (On-grid or AC)
  - Red when the module is not energized (On-grid or AC)
- MP panel LED**
  - Green when the MP module is energized (On-grid or island)
  - Red when the MP module is not energized (On-grid or AC)
  - Red when the MP module is not energized (On-grid or AC)
- MP reset button**
  - Green when the MP module is energized (On-grid or island)
  - Red when the MP module is not energized (On-grid or AC)
  - Red when the MP module is not energized (On-grid or AC)
- Percent product on LED**
  - Green when the product is energized (On-grid or island)
  - Red when the product is not energized (On-grid or AC)
  - Red when the product is not energized (On-grid or AC)
- Device control button (LED)**
  - Green when the device is energized (On-grid or island)
  - Red when the device is not energized (On-grid or AC)
  - Red when the device is not energized (On-grid or AC)

For IQ-6/7  
Grid Tied

202308175243

202308190941

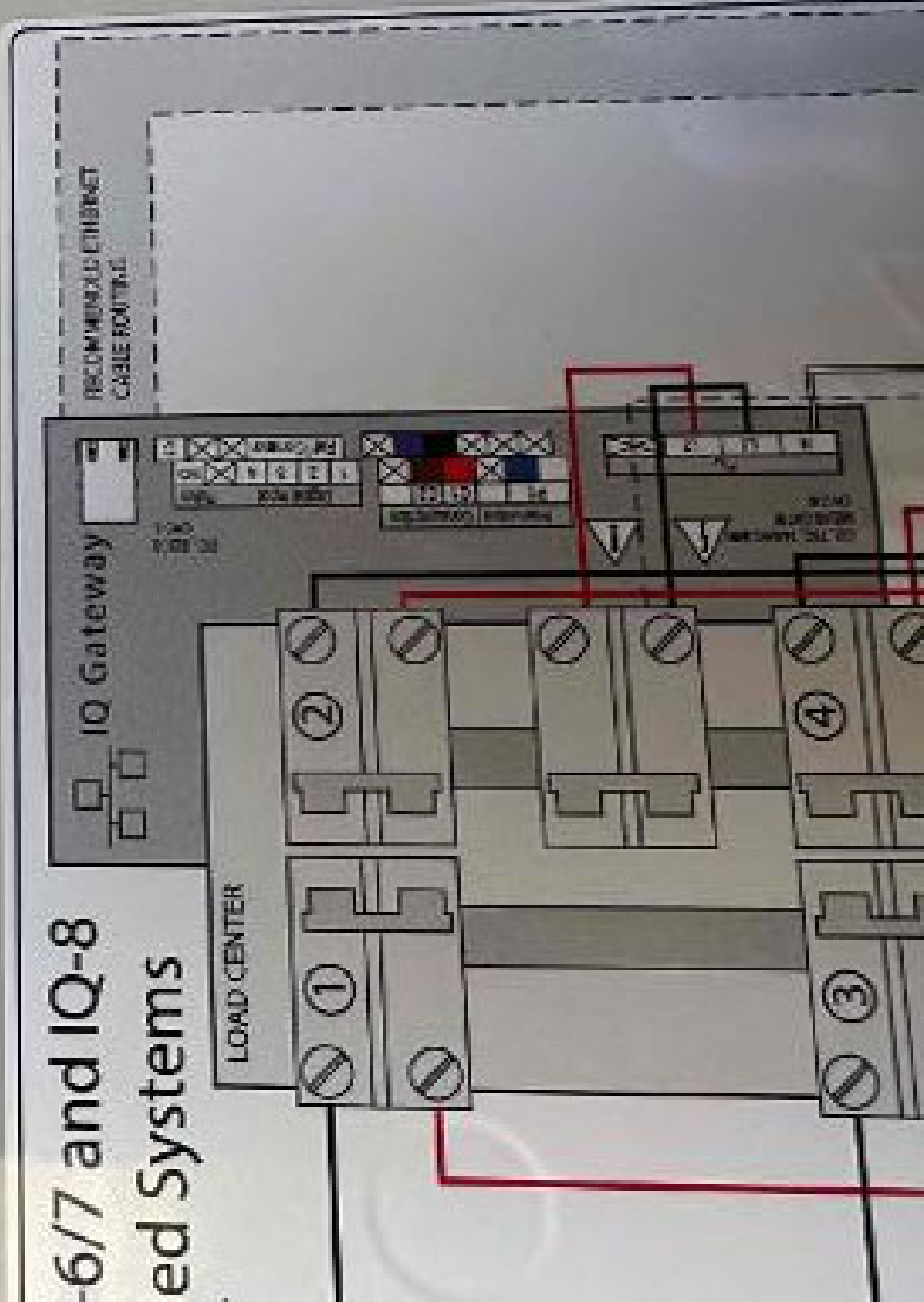
202308187841

202308187940

202308192023

202308151017

# -6/7 and IQ-8 ed Systems







Combine LED & buttons quick reference guide

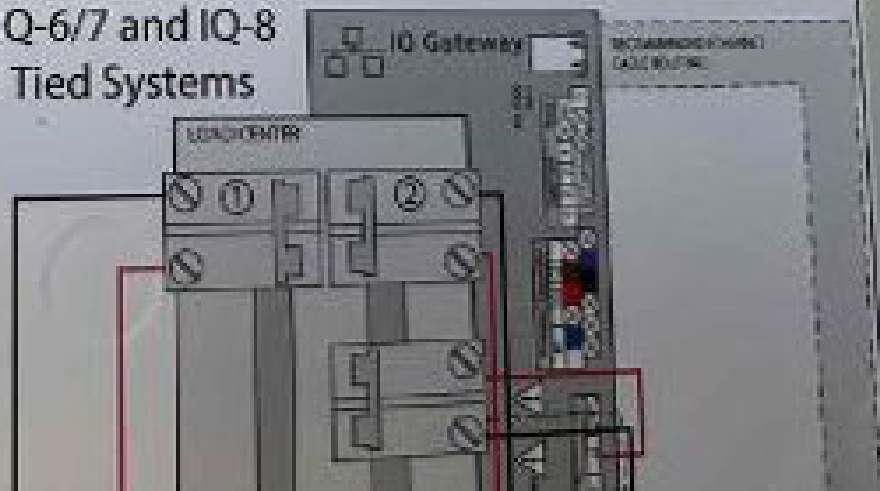


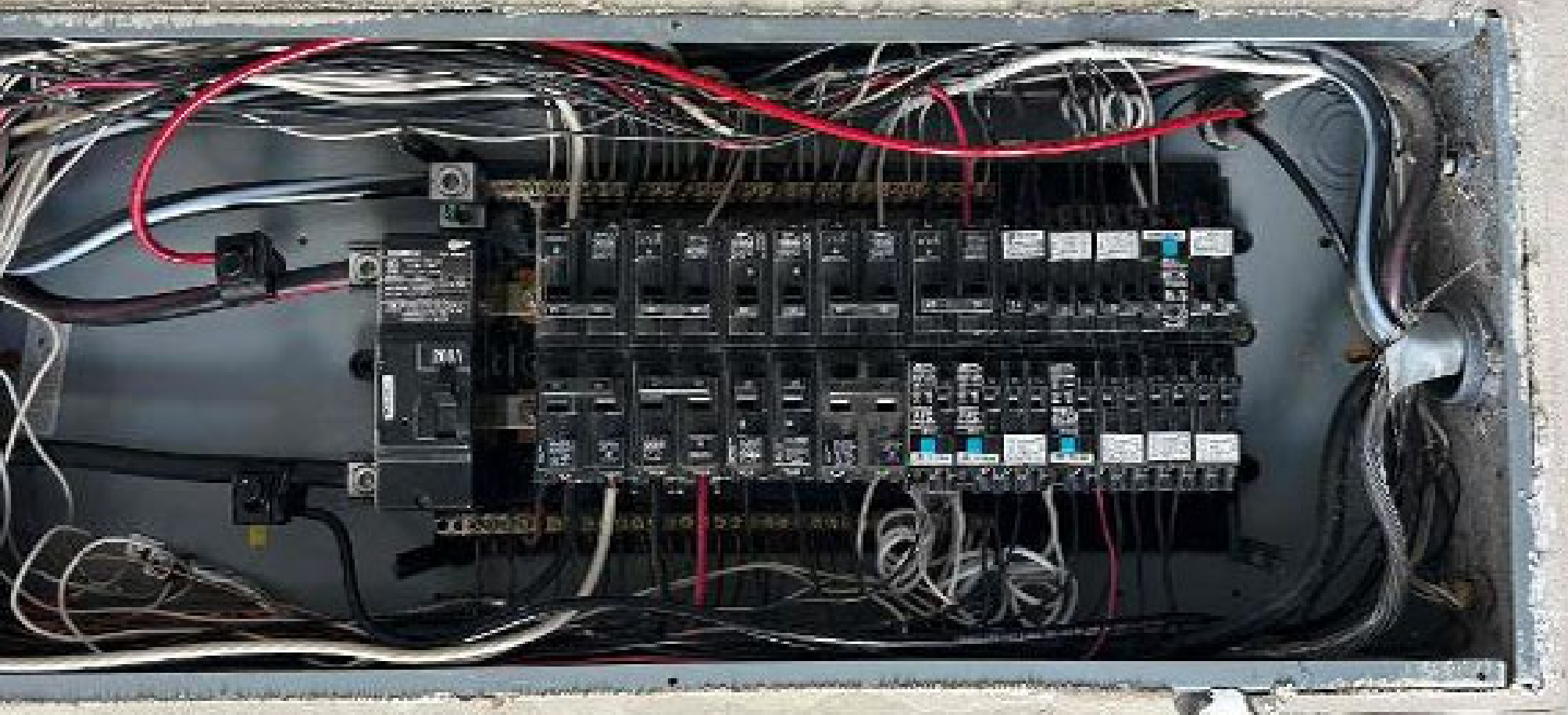
- 1** High temperature shutdown LED

  - Green when collector temperature is high
  - Red when generator temperature is high
  - Yellow when collector temperature is high
  - Off when no fault is available
- 2** AP mode LED

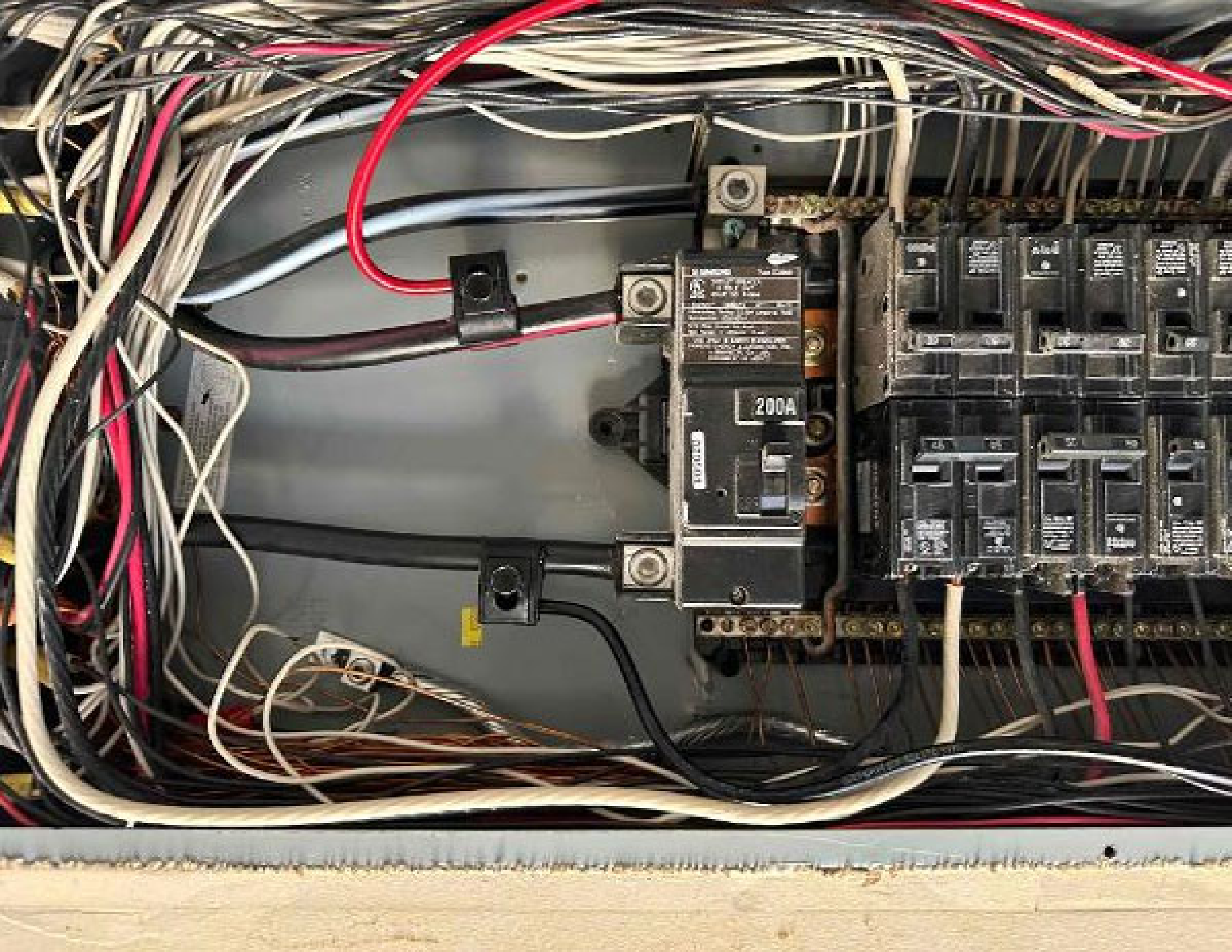
  - Green when AP mode is used and all sensors are available
  - Off when AP mode is disabled
  - Off when all sensors are not working
- 3** AP mode LED

For IQ-6/7 and IQ-8 Grid Tied Systems











Spring Lake, NC, 28390

165 Edgecombe Dr.

Ian Caskey

*Alan Caskey*  
*165 Edgecombe Dr.*  
*Spring Lake, N.C. 27982*

REFER TO INSTALLATION MANUAL



Intertek  
5919042 NEMA 3R

For more gascode products visit [www.gascode.com](http://www.gascode.com)

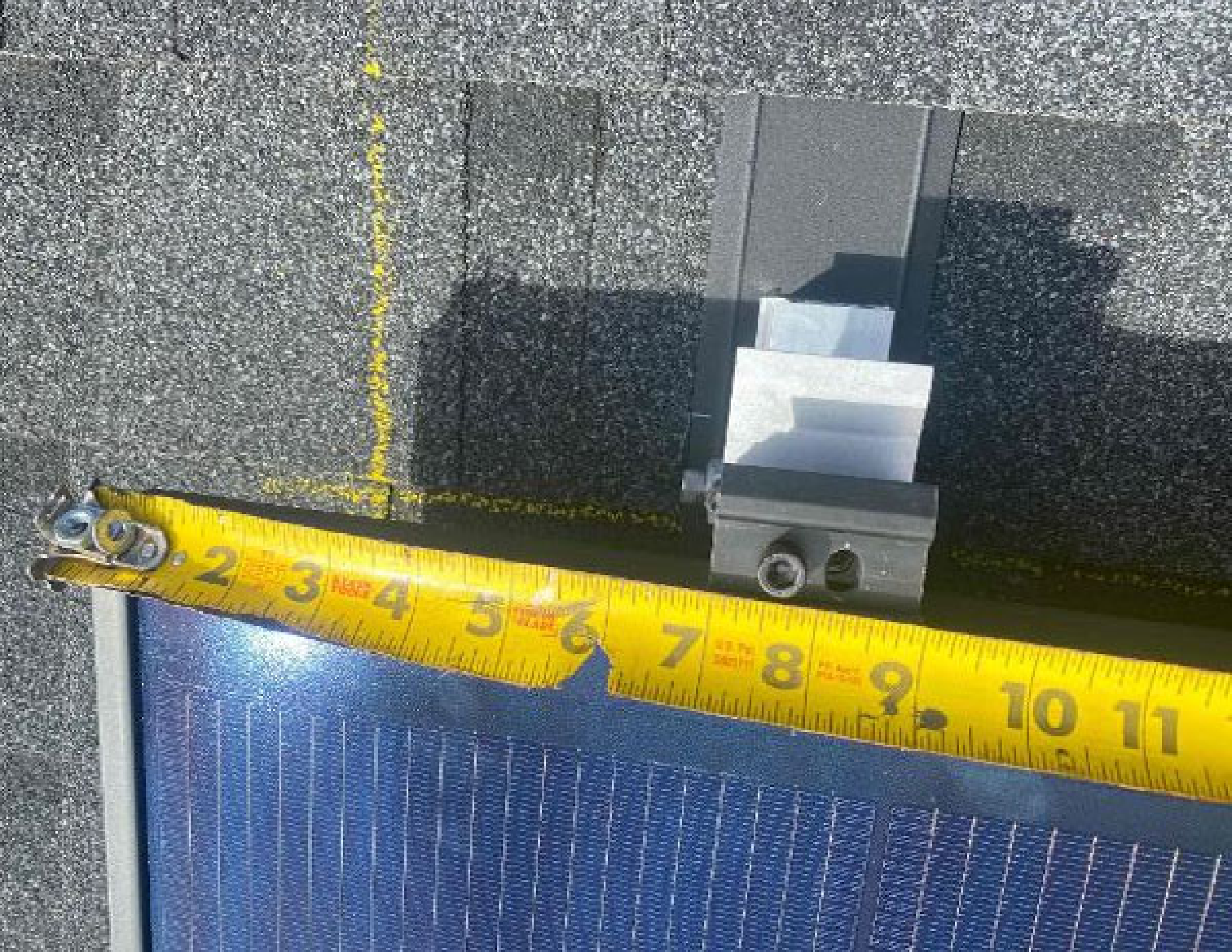




































drywet 2/C 12AWG -40C oil res sunlight resistant



CERTIFIED

SAFETY US-CA  
E486080

102

840-00388-17  
250VAC 20A  
+79°C 2307







160

650-10398A-17  
350VAC 20A  
4197C 2307













[A111-04]

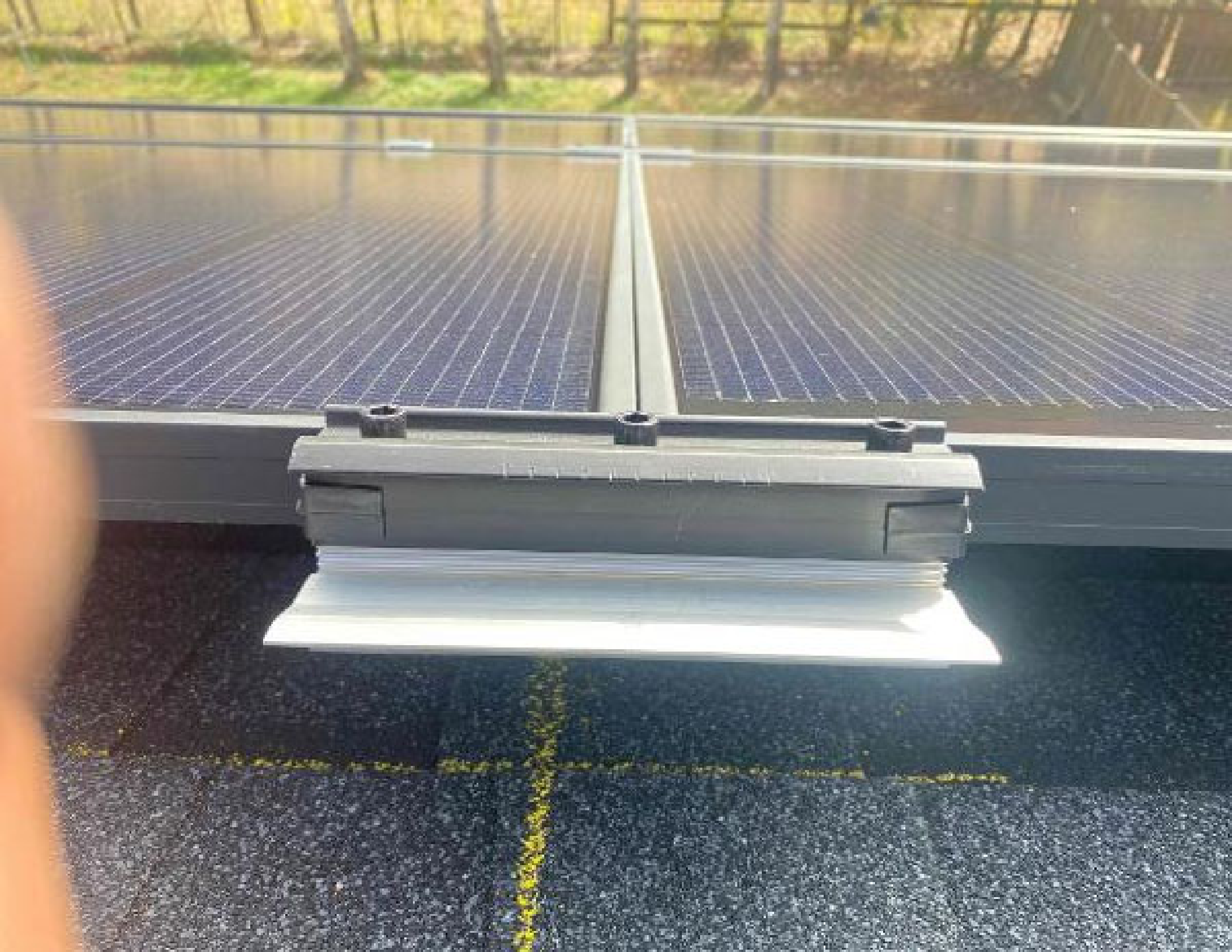








www.foxconn.com















I am looking for  
Edgewater in  
Spring Lake, NJ 08080







 **ENPHASE.**

**1Q7X**

1Q7X Grid Support Inverter  
For Enphase patent information, refer to  
<http://enphase.com/company/patents/>

Power factor range: 0.95-1.0

DC input range: 25 - 70V

Max. input short-circuit current: 10A

Max. input continuous current: 6.5A

AC output voltage: 208 / 240V

AC output current: 1.5 / 1.31A

AC output frequency: 60Hz

AC output power limit, continuous: 315W

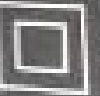
Operating temperature: -20°C to +60°C

Ingress protection: NEMA Type 0

Photovoltaic Rapid Shutdown Equipment

NEC 690.12 and C22.1-2015 Rule 64-210

UL1741 SA Compliant | Assembled in Mexico



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

**CAUTION: RISK OF SHOCK. IMMEDIATELY UNDO IT COVER REMOVED. NO USER SERVICEABLE PARTS INSIDE. WARN! SERVICING BY QUALIFIED SERVICE PERSONNEL.**

**WARNING: ELECTRIC SHOCK HAZARD.** DISCONNECT BOTH BEHIND SERVICES. PHOTOVOLTAIC VOLTAGE SOURCES TERMINATE INSIDE THIS EQUIPMENT. DISCONNECT BOTH BEHIND SERVICES. PHOTOVOLTAIC ARRAY SUPPLIES A DC VOLTAGE TO THIS EQUIPMENT WHEN EXPOSED TO LIGHT. HOT SURFACES. TO AVOID THE RISK OF BURNS - DO NOT TOUCH.

**ATTENTION: RISQUE D'ELECTROCUTION. LES CONDUCTEURS DE CE SYSTEME PHOTOVOLTAIQUE NE SONT PAS RELIES A LA TERRE ET PEUVENT ETRE SOUS TENSION. DES SOURCES DE TENSION CA ET CC SONT CONNECTES A CET APPAREIL. SOUS LES DEUX SOURCES AVANT TOUTE INTERVENTION. LES CABLES COURANT CONTINU SONT SOUS TENSION LORSQUE LE CHAMP PHOTOVOLTAIQUE EST EXPOSE A LA LUMIERE. RISQUE DE BRULURE. NE PAS TOUCHER.**

**ENPHASE**  
**IQ7X**

ENPHASE POWER SYSTEMS  
10000 WILLOW CREEK DRIVE  
SANTA FE SPRING, CA 94605  
TEL: 925-254-2000 FAX: 925-254-2001  
WWW.ENPHASE.COM



UL LISTED FOR USE IN THE U.S. AND CANADA  
UL TYPE LISTED FOR USE IN THE U.S. AND CANADA  
UL TYPE LISTED FOR USE IN THE U.S. AND CANADA

**WARNING:** This device contains high voltage components. Do not touch any internal components. Do not open the enclosure. Do not attempt to repair or modify the device. Do not use the device if it is damaged or if it has been exposed to fire, flood, or other environmental conditions. Do not use the device if it is not properly grounded. Do not use the device if it is not used in accordance with the instructions provided with the device.

**ATTENTION:** This device is a Class 2 laser product. Do not stare into the beam. Do not use the device in a way that could cause a fire or other hazard. Do not use the device in a way that could cause damage to property or equipment. Do not use the device in a way that could cause injury or death.

ENPHASE  
10000 WILLOW CREEK DRIVE  
SANTA FE SPRING, CA 94605  
TEL: 925-254-2000 FAX: 925-254-2001  
WWW.ENPHASE.COM  
2023018192025



Sewer Gas Line

105 Edgewood Dr

Spring Lake, N.C. 27982



ETW  
ELECTRICAL TOOL WORK

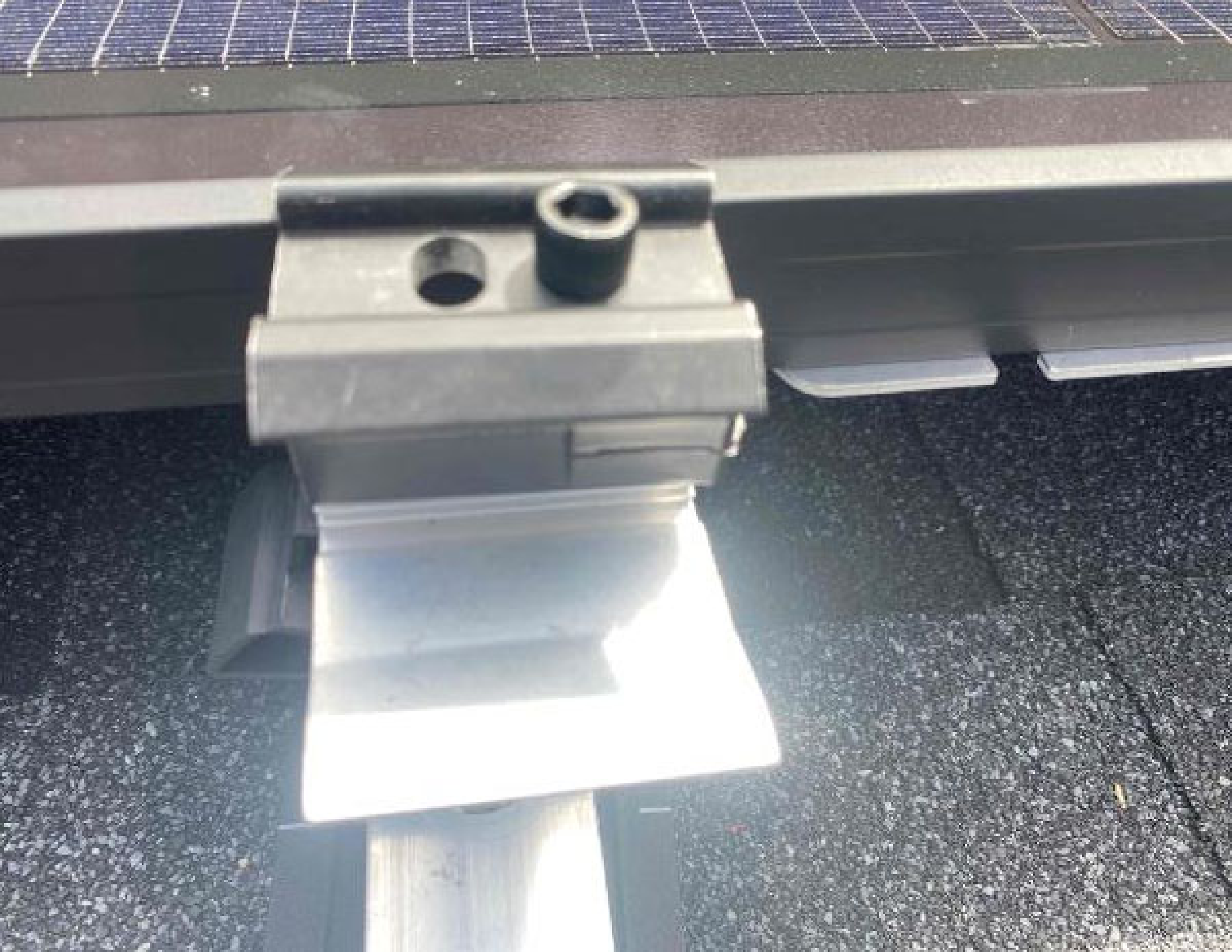










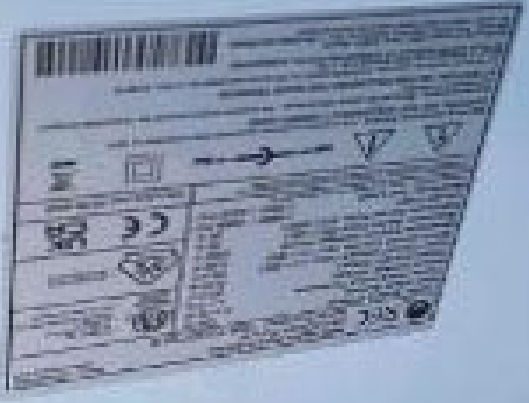


PATENTSWITHJURK.COM/PATENTS  
CONFORMS TO UL STD 2703  
12 / 2022  
UNIRAC SPM UNIRAC MFR 010A

PATENTS AND TRADEMARKS  
CONFORMS TO UL STD 2703  
12 / 2021  
UNIRAC SHF UNIRAC MFR 0104



Warning label with text and diagrams, including a barcode at the bottom.

















REC Alpha Power Series  
REC-Q200A Part #  
Serial Number: F6R-2000004

Power Output (Pmax)	400W
Watt Class / Sorting	400W
Power Production Tolerance	+17%
Rated Voltage (Vmp)	50.0V
Rated Current (Imp)	8.00A
Open Circuit Voltage (Voc) (at 25°C)	60.0V
Short Circuit Current (Isc) (at 25°C)	8.50A
Maximum System Voltage (Vsys)	150V
Maximum Series Fuse (DC) (10A)	20A
Maximum Series Fuse (DC) (100)	20A
Design Load	+100% 2000hrs +200% 4000hrs
Maximum Test Load	+100% 2000hrs +200% 4000hrs

(Measured at STC, 1000 W/m<sup>2</sup>, 25°C and wind 0 m/s)

See datasheet for Temperature Coefficient information

or application requirements for full range of applications



Warning: electrical hazard. The voltage present

CAUTION: DO NOT DISCONNECT UNDER LOAD

ATTENTION: Before at any connection

ATTENTION: BE SURE TO CONNECT THE

ATTENTION: BE SURE TO CONNECT THE

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REC-Q200A



REC Alpha Pure-R Series  
REC420AA Pure-R

Serial Number: F88-7095973442

Power Output (P<sub>max</sub>) 420 W  
 Watt Class Sorting 0V to 10 W  
 Power Production Tolerances ±1.2 %  
 Rated Voltage (V<sub>rated</sub>) 50.0 V  
 Rated Current (I<sub>rated</sub>) 8.40 A  
 Open Circuit Voltage (V<sub>oc</sub>) (+/- 3%) 59.4 V  
 Short Circuit Current (I<sub>sc</sub>) (+/- 3%) 8.89 A  
 Maximum System Voltage (V<sub>max</sub>) 100 V  
 Maximum Series Fuse (DC) (UL) 25 A  
 Design Load +4006 / -2500 P<sub>avg</sub>  
 Maximum Test Load +7000 / -4000 P<sub>avg</sub>

Values at 25°C, 1000 W m<sup>-2</sup> A<sub>0.1</sub> S, cell temp. 25°C



ETL  
 LISTED  
 TO THE  
 UL STANDARD  
 1910  
 FOR  
 PHOTOVOLTAIC  
 MODULES



DVE  
 1000 W m<sup>-2</sup>  
 1000 P<sub>avg</sub>



Manufactured 03.08.2023



Warning electrical hazard. This module presents a potential shock hazard to light.

**CAUTION: DO NOT DISCONNECT UNDER LOAD**

Avertissement: Risque de choc électrique. Ce module présente un potentiel de l'éclairage à la lumière.

**ATTENTION: NE PAS DÉCONNECTER SOUS TENSION**

For field connections, use only a maximum of 4mm<sup>2</sup> AWG (UL 100) wires connected to the terminals of REC.

Made in Singapore by REC SOLAR PTE. LTD.

20 TUEAS SOUTH AVENUE 14, SINGAPORE 630000

Europe Contact: REC Solar GmbH, 10000 Berlin  
 Ballestrich 71b, 10585 Munich, Germany, Tel: +49 30 9088 980 9800  
 For other regions visit: www.rec-solar.com/contact







REC Alpha Power Series  
REC-420AA Power  
Serial Number: F08-70537940

Power Output (Pmax)

Watt Class Sorting

Power Production Tolerance

Rated Voltage (Vnapp)

Rated Current (Inapp)

Open Circuit Voltage (Voc) (40-3%)

Short Circuit Current (Isc) (40-3%)

Maximum System Voltage (Vmsv)

Maximum Series Fuse (DC) (AUL)

Maximum Series Fuse (DC) (IEC)

Design Load

Maximum Test Load

Values at 25 °C, 1000 W irradiance, 1% cell temp. 25 °C

420 W

61-110 W

11-21 A

56.8 V

8.40 A

35.4 V

8.88 A

1000 V

25 A

25 A

1-666 (1-2000) W

4-765 (1-4000) W



See manual for details. REC is not responsible for any damage or injury caused by the use of the product.



Warning: do not touch the board. The board is hot.

CAUTION: DO NOT DISCONNECT UNDER LOAD

Attention: Ne pas déconnecter sous charge

For further information, contact REC at 00351 21 41 11 11

ATTENTION: NE PAS DÉCONNECTER SOUS CHARGE

For further information, contact REC at 00351 21 41 11 11

Warranty: 24 months or 1000 hours, whichever comes first

Garantie: 24 mois ou 1000 heures, whichever comes first

See manual for details. REC is not responsible for any damage or injury caused by the use of the product.





REC Alpha Pure-R Series  
REC420AA Pure-R  
Serial Number: FB8-7005373M42

Power Output (Pmax) 420 W  
Watt Class Sorting 01-10 W

Power Production Tolerance  $\pm 3\%$   
Rated Voltage (Vmp) 50.6 V

Rated Current (Imp) 8.40 A  
Open Circuit Voltage (Voc)  $\pm 3\%$

Short Circuit Current (Isc)  $\pm 3\%$   
Maximum System Voltage (Vsys) 8.89 A

Maximum Series Fuse (MSF) (UL) 1000 V  
Maximum Series Fuse (MSF) (IEC) 25 A

Design Load 25 A  
Maximum Test Load  $\pm 4000 / 2668 \text{ Pa}$

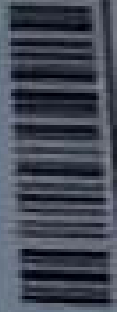
Values at STC: 1000 W/m<sup>2</sup> T.C. and temp. 25°C  
Values at STC: 1000 W/m<sup>2</sup> T.C. and temp. 25°C



Manufactured 03.08.2012



Warning electrical hazard. This machine contains components which become very hot.  
**CAUTION: DO NOT DISCONNECT UNDER LOAD**  
Avertissement: Risque de choc électrique. Ce produit est très chaud en fonctionnement.  
**ATTENTION: NE PAS DISCONNECTER SOUS TENSION**  
Für Ihre Sicherheit: Das Gerät enthält sehr heiße Bauteile.  
**Warnung: NICHT ABKLEBEN UNTER LAST**  
Messa in Singapore by REC (Singapore) Pte Ltd  
50 Tuas South Avenue 1, Singapore 630001  
Allgemeine Kunden REC: Email: [info@rec.com](mailto:info@rec.com)  
Tel: +49 375 3181111  
Fax: +49 375 3181111



























Refer to 2412 and 2413 for wiring diagrams and load specifications.

**48 Loads**

Use the following information when wiring the combiner box to a photovoltaic array. Refer to the array's data sheet for load specifications.

Combiner box 480V or 600V is designed for 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.



**IQ Combiner 4**

Photovoltaic  
Combiner Box

X2-IQ-AM1-240-4

IEEE1547:2018 COMPLIANT



**240VAC Ratings**

Voltage 240VAC, 60Hz  
DC Breakers 60A MAX (combined)  
DC Inputs 64A MAX (combined)  
Cables 65A MAX, 60A MAX (feeder/branch)  
Temperature 40°C MAX ambient  
For DC breakers, use only Eaton BR breakers.



202330079753

ENPH



202330079753



202330079753

DC Breakers and DC Cables: See the load code table for 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.

Load Code	Wire Size	Temp
DC Breaker (1, 2, 3, 4)	14-10 AWG	2.2 mm (2.2 In.)
	6 AWG	2.6 mm (2.5 In.)
	4-4 AWG	3.0 mm (2.7 In.)
DC Combiner Only	4-10 AWG	3.0 mm (2.7 In.)
	14-10 AWG	2.2 mm (2.2 In.)
DC Combiner Breaker	2-10 AWG	3.0 mm (2.7 In.)
	34-3 AWG	5.1 mm (4.9 In.)
Neutral and ground	6 AWG	3.0 mm (2.7 In.)
	8 AWG	2.6 mm (2.5 In.)
	10-14 AWG	2.2 mm (2.2 In.)
Main bus	10-4 AWG	3.0 mm (2.7 In.)
	3-20 AWG	5.6 mm (5.3 In.)

Combiner components rated min. 75°C. Follow IEEE 1547, IEEE 1547.1, or CSA C22.1 part 1, and all local codes. For DC breakers larger than 75A, use a rating plate for 80°C ambient 75°C temperature.

Designed in California and New Zealand. Made in Mexico.

**For IQ-8 Grid  
Forming Systems**

