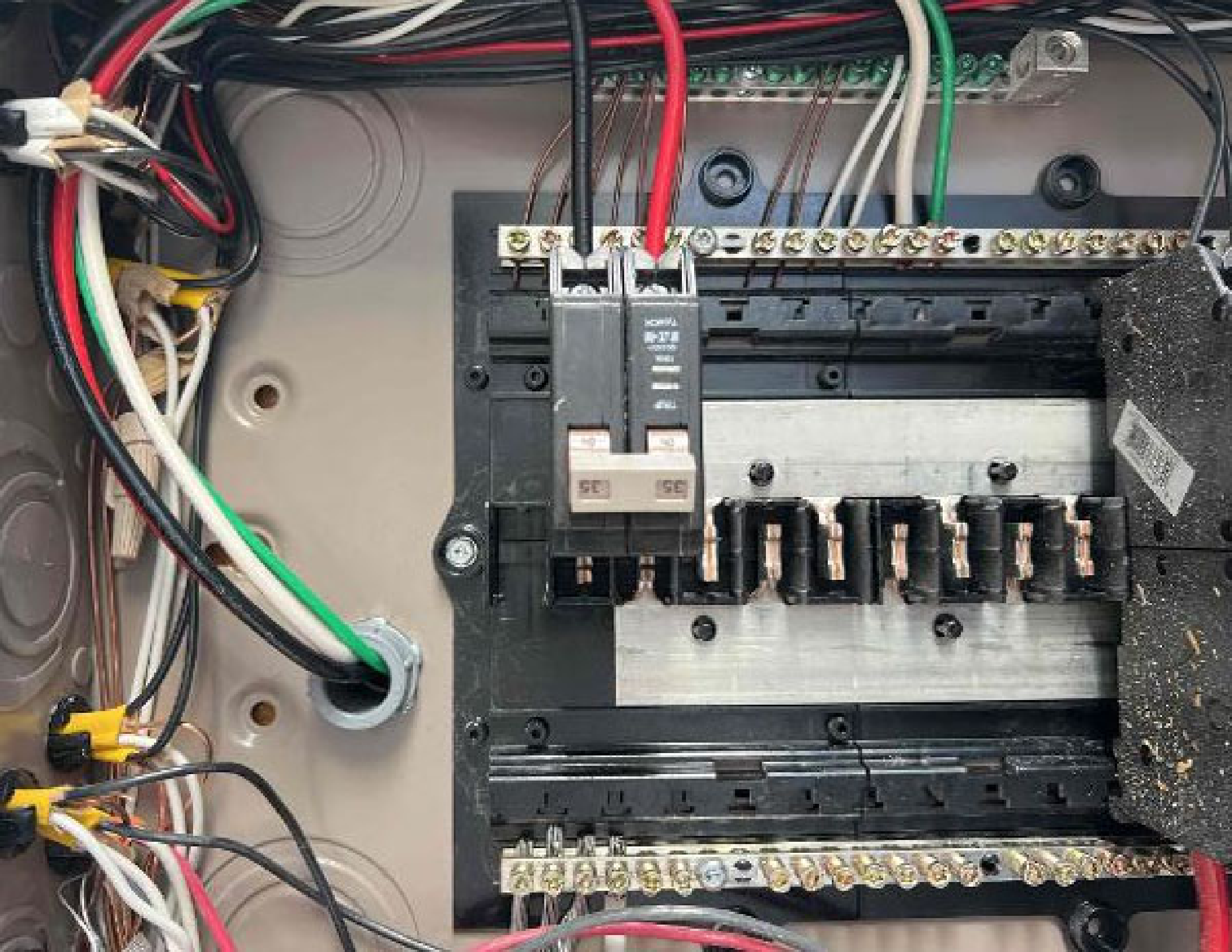
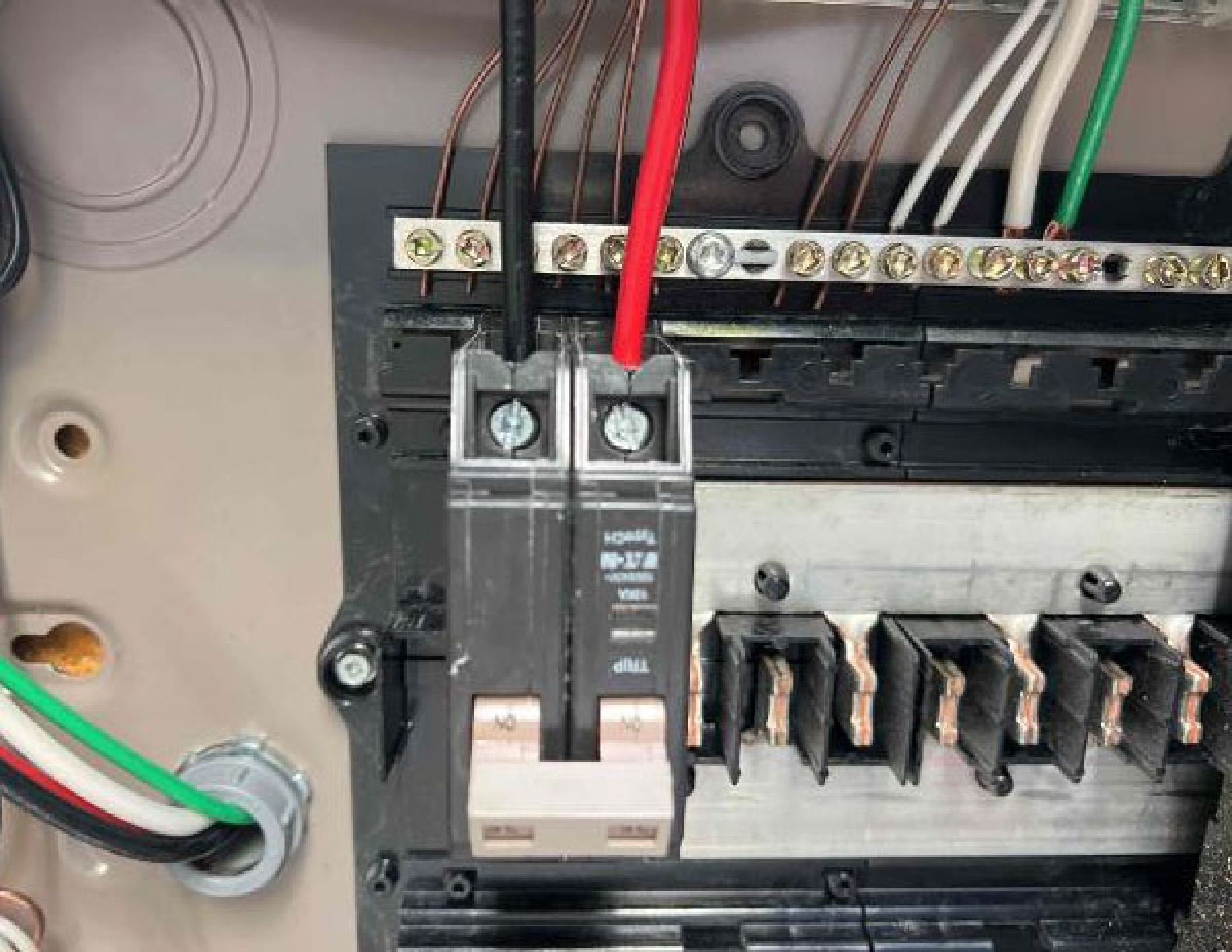




To Bricker  
144 Downing  
Dr. Furway  
Elec: Mitchell  
Nguyen



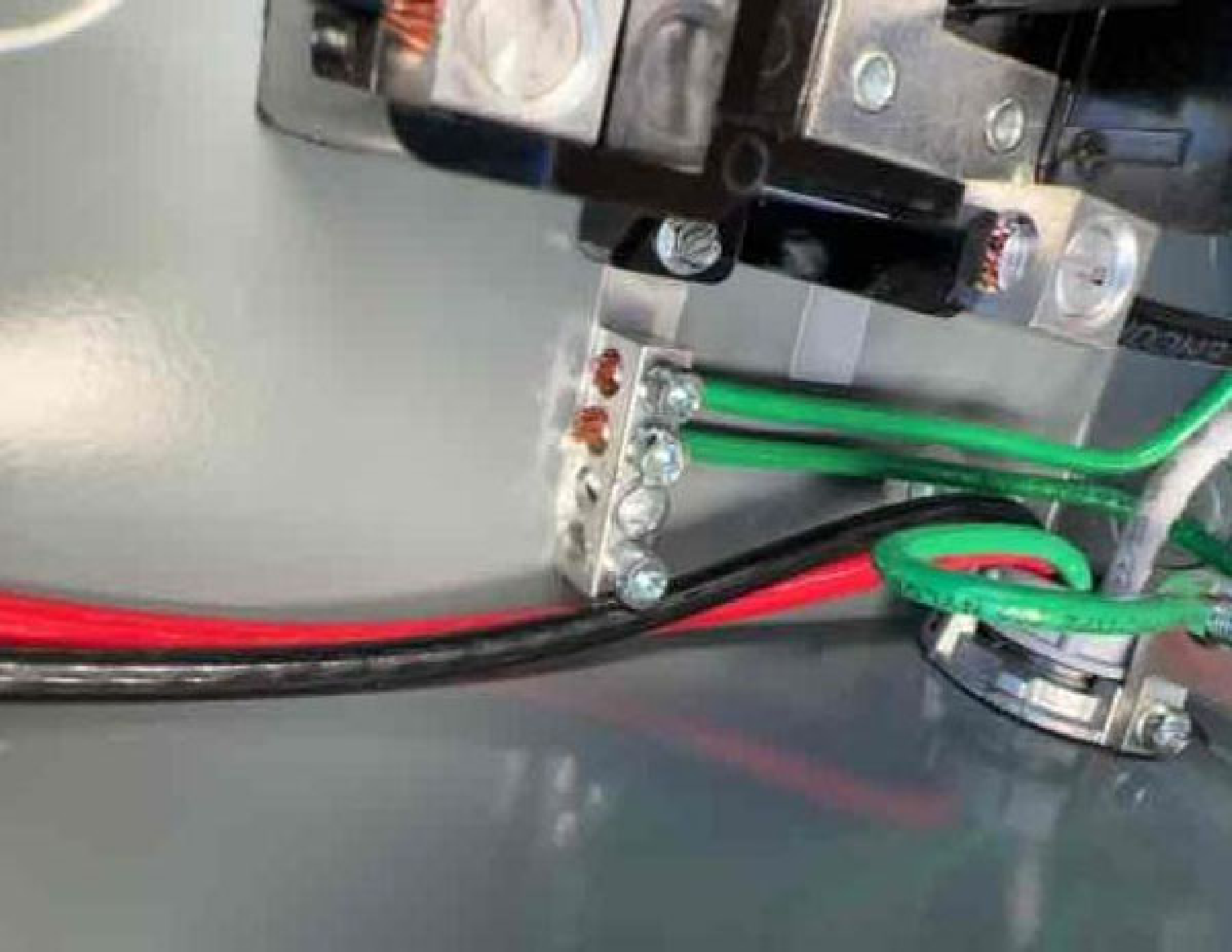


















3765125  
DEP



 ENPHASE.

# IQ7X

IQ7X Grid Support Inverter  
For Enphase product integration, refer to <http://enphase.com/en-us/iq7x>

- Power Output Range: 4-10kW
- DC Input Voltage: 24-75V
- Max. Input: 200000VA/1000A/500V
- AC Output Voltage: 120V/240V
- AC Output Current: 100/110A
- AC Output Frequency: 60Hz
- AC Output Phase: 1-Phase, 3-Phase
- Operating Temperature: -30°C to 50°C
- Lightning Protection: 10kV/10kA
- Dimensions: 1000mm x 1000mm x 1000mm
- Weight: 100kg (220lb)
- Warranty: 10 years (see warranty for details)



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, and (2) this device must accept any interference received, including interference from authorized radio communication systems.

CAUTION: BEFORE WORKING ON ELECTRICAL SYSTEMS, ALWAYS DISCONNECT MAIN SERVICE, SERIES SERVICES, INCLUDING SERVICE REVERSE.



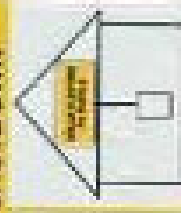
**WARNING: ELECTRIC SHOCK HAZARD.** Do not touch or be in contact with any electrical components. Always use proper safety procedures. Always disconnect main service, series services, including service reverse, before working on the system. Do not touch.

**ATTENTION: RESISTANCE TO FLAME.** This device is made of plastic. Do not use this device in areas where it is exposed to flames or high temperatures. Do not use this device in areas where it is exposed to high humidity or high salt concentrations. Do not use this device in areas where it is exposed to corrosive gases or vapors. Do not use this device in areas where it is exposed to high levels of dust or dirt.



**SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN**

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE AREA



**PHOTOVOLTAIC SYSTEM AC DISCONNECT**

MAXIMUM OVERCURRENT DEVICE	A
NOMINAL OPENING AC RATED	5

**WARNING**

DUAL POWER SUPPLY

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

**WARNING**

ELECTRIC SHOCK HAZARD  
TERMINALS ON THE LINE AND LOADS MAY BE ENERGIZED IN THE OPEN POSITION

**WARNING**

© 2014 Schneider Electric. All rights reserved. Schneider Electric, the Schneider Electric logo, and the 'S' logo are trademarks of Schneider Electric. All other trademarks are the property of their respective owners.

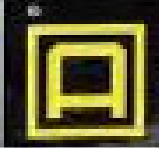
586-03842

**⚠ WARNING**  
POWER SOURCE OUTPUT CONNECTION.  
DO NOT RELOCATE THIS OVERCURRENT DEVICE.

35	NO	2	Solar
35	NO	4	Solar
		6	
		8	
		10	
		12	
		14	
		16	
		18	

**WARNING** ⚠️

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM MAIN DISTRIBUTION UTILITY DISCONNECT LOCATED GRABICE - 1029



**GENERAL DUTY SAFETY SWITCH**  
INTERRUPTOR DE SEGURIDAD GENERAL  
SERVICIO GENERAL  
50 A  
240 VAC 1-P



**⚠️ DANGER / PELIGRO**  
RISK OF ELECTRIC SHOCK - CONSULT THE LABEL FOR PRECAUTIONS. RIESGO DE ELECTRICIDAD. CONSULTAR EL ETIQUETA POR PRECAUCIONES.

**BEFORE WORKING ON THIS EQUIPMENT:**

- 1. Turn off the power to the equipment by opening the main service disconnect.
- 2. Lock and tag the main service disconnect.
- 3. Verify that the power is off by testing the equipment terminals with a properly rated voltage tester.
- 4. The equipment must only be worked on after the power has been verified to be off.
- 5. Only persons who are properly trained and authorized should work on this equipment.
- 6. Do not touch any energized parts of the equipment.
- 7. Do not touch any metal parts of the equipment that may be energized.
- 8. Do not touch any metal parts of the equipment that may be energized.
- 9. Do not touch any metal parts of the equipment that may be energized.
- 10. Do not touch any metal parts of the equipment that may be energized.
- 11. Do not touch any metal parts of the equipment that may be energized.
- 12. Do not touch any metal parts of the equipment that may be energized.

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT** ⚠️

RATED AC OUTPUT CURRENT **50 A**  
NOMINAL OPERATING AC VOLTAGE **240 V**

**⚠️ WARNING**

**ELECTRIC SHOCK HAZARD**  
TERMINALS ON THE LINE AND  
LOAD SIDES MAY BE ENERGIZED  
IN THE OPEN POSITION

**RAPID SHUTDOWN  
SWITCH FOR  
SOLAR PV SYSTEM**

 ENPHASE

**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT** 

RATED AC OUTPUT CURRENT:  $\frac{1}{2}$  A  
NOMINAL OPERATING AC VOLTAGE: V

**WARNING**

PHOTOVOLTAIC SYSTEM  
COMBINER PANEL

DO NOT ADD LOADS

**WARNING**

ELECTRIC SHOCK HAZARD

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

**WARNING**

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

**WARNING**

MADE BY THE ENPHASE CORPORATION  
10000 N. 100TH AVENUE, SUITE 100  
DENVER, CO 80261-1000  
ENPHASE.COM











Jo Bricker  
144 Dominion  
Dr. Fanning  
Elec: Mitchell  
Nyguyen



Jo Bricker  
144 Dominion  
Dr. Ferguson  
Elec: Mitchell  
Niguyen























### IQ Gateway Connectivity

● Connected to Enbridge Cloud

### Power Production

Power production is enabled

### Production

Test

Go

Test

On

IEE



Scan completed

12 Micrometers - 20/20

Done

CHANGE QIND>PROFILE

### Powerline Scan (Auto)

To activate IQ Powerline, go to Settings and click on Powerline. The Powerline module has a number of features that are used to generate reports.

PLC SCAN



### Unsynced Items

Media

0

Project

0

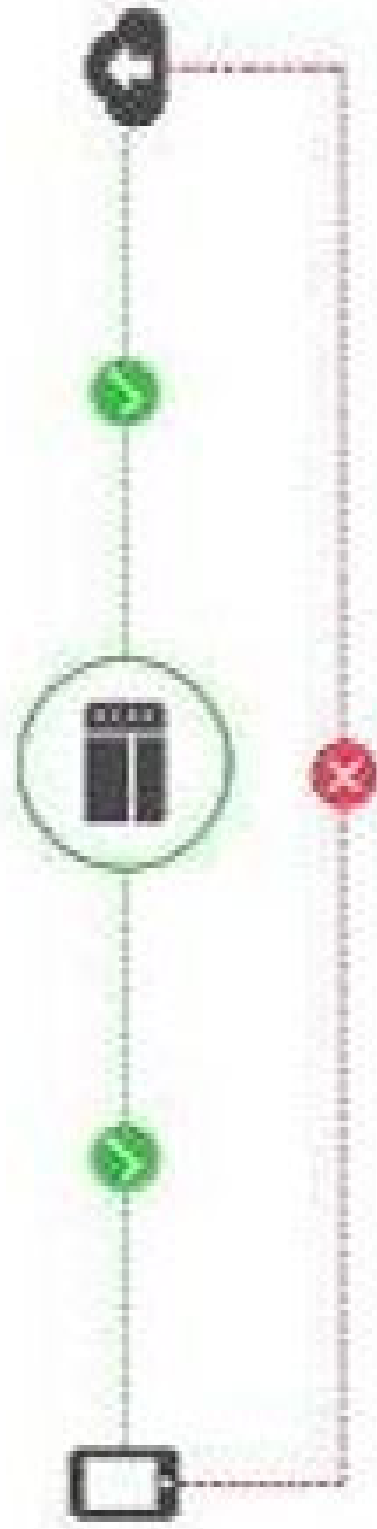
### Sync Settings

Sync on Wifi only

OFF

[Having trouble syncing?](#)

IQ Gateway 202324027052



IQ Gateway successfully connected to Enphase Cloud and Installer Toolkit

### IQ Gateway Connectivity status



Wi-Fi

192.168.1.01

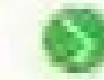
Configured



Ethernet



Cellular



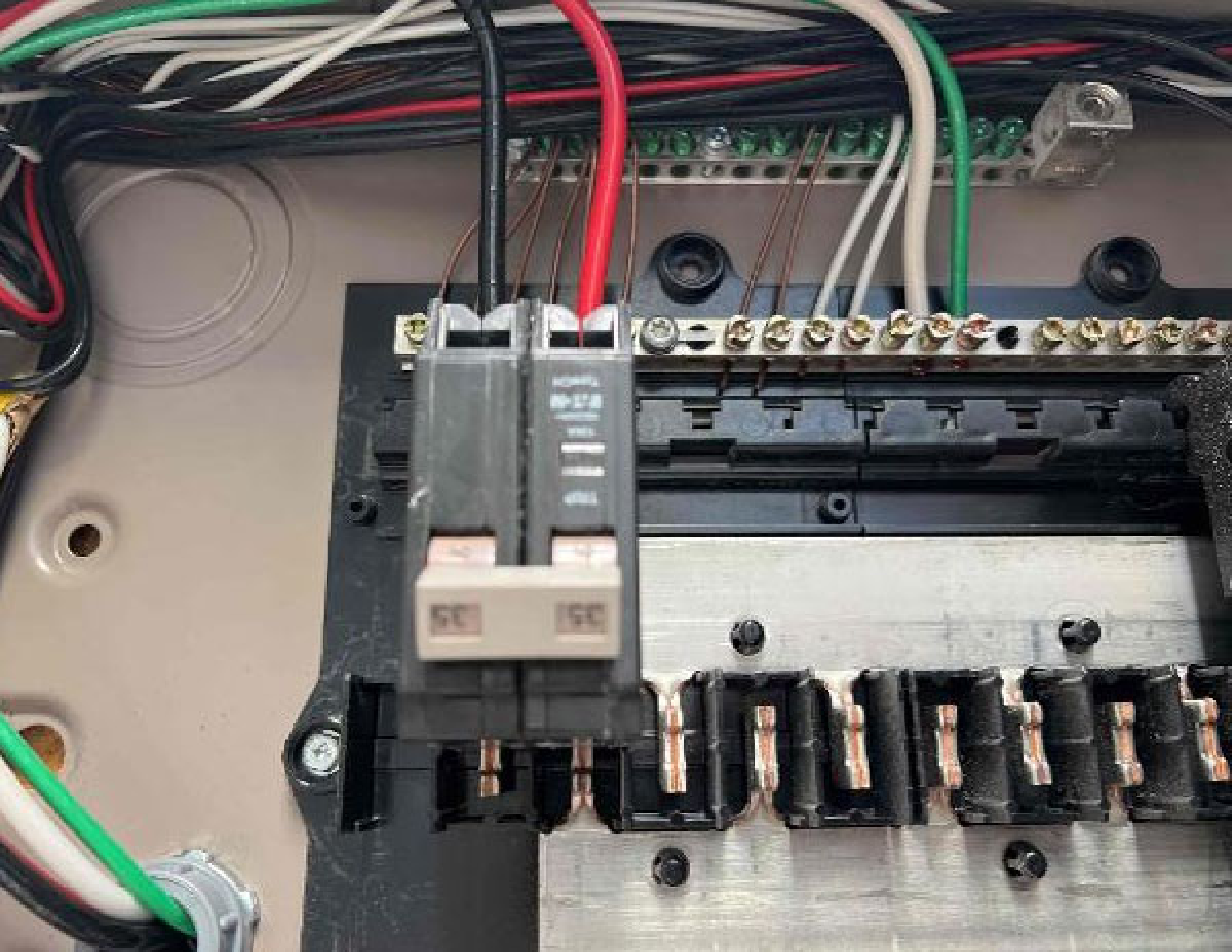
Software up-to-date

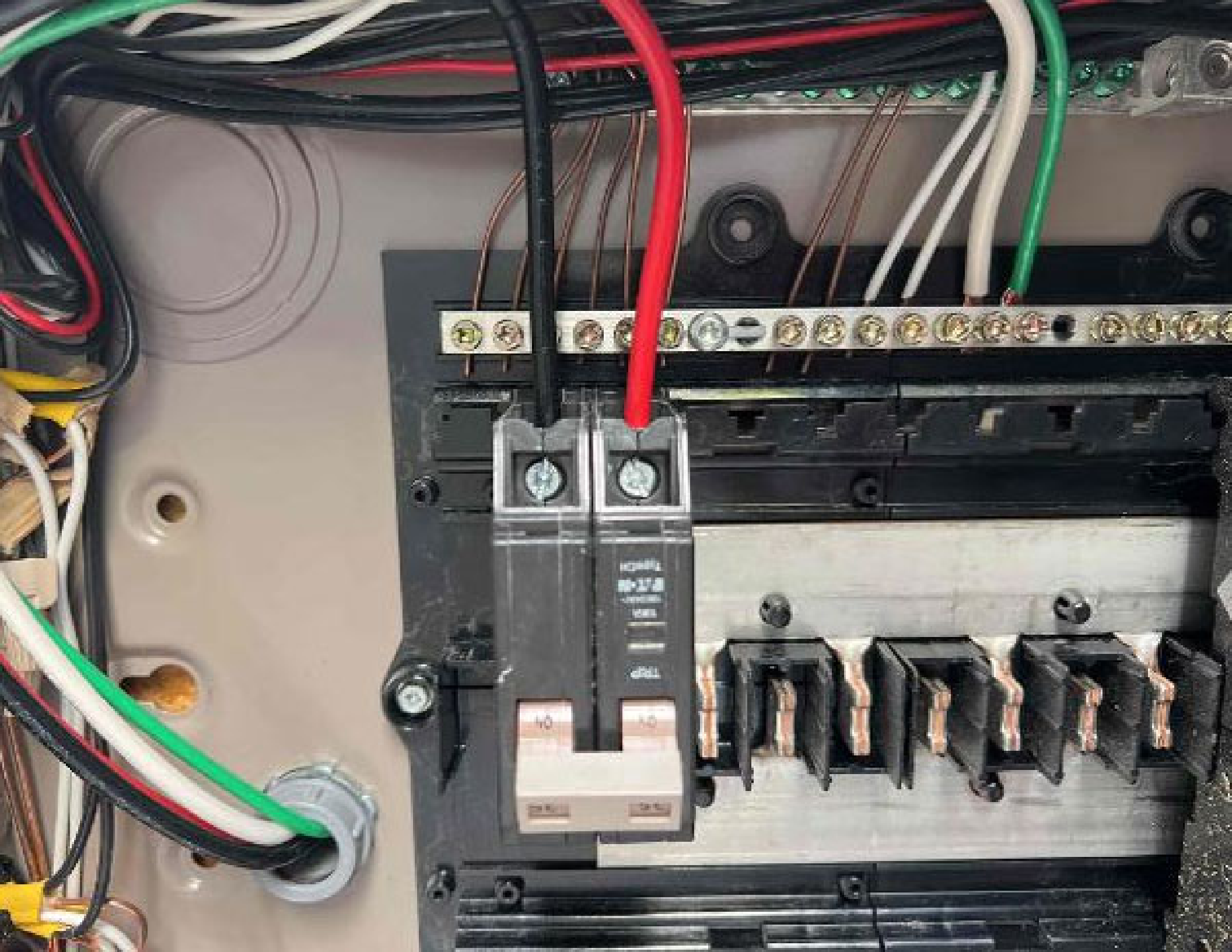
Current software version 07.08.466

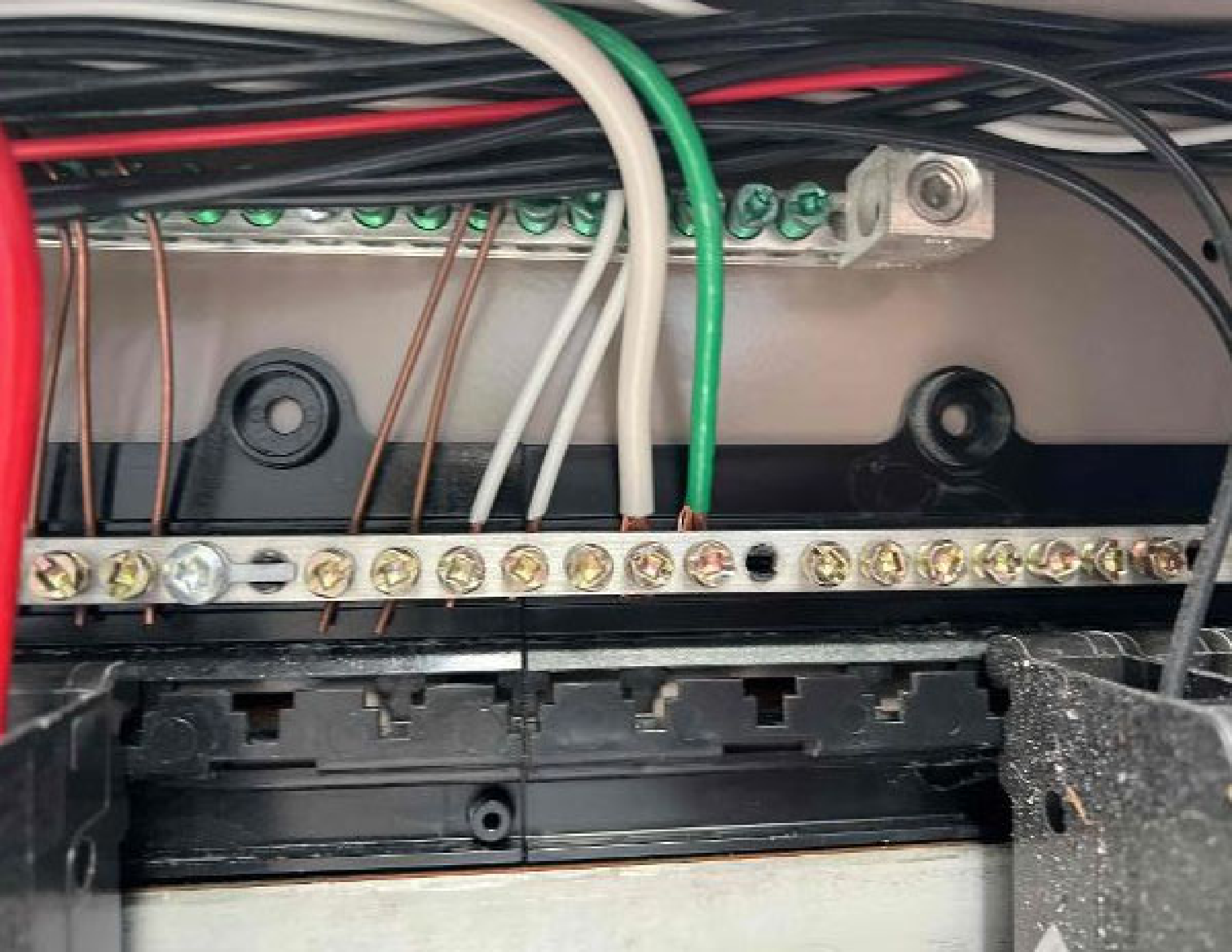




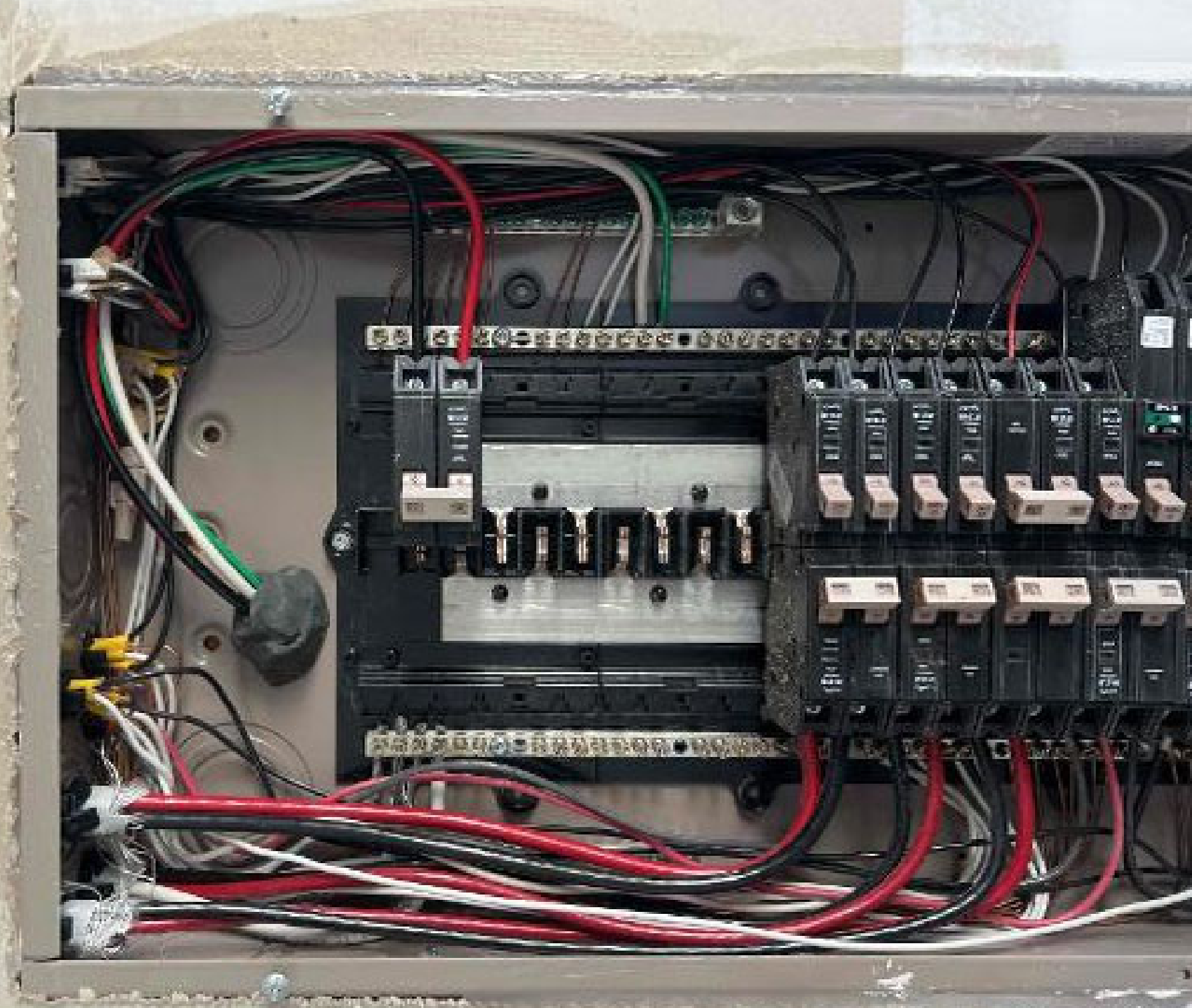












**LINIRAC SFM INFINITY RACKING**  
FOR MOUNTING AND GROUNDING SOLAR SYSTEMS  
UL1703, UL2703



840-00388-14  
250VAC 20A  
79°C 2042



778



840-00388-14













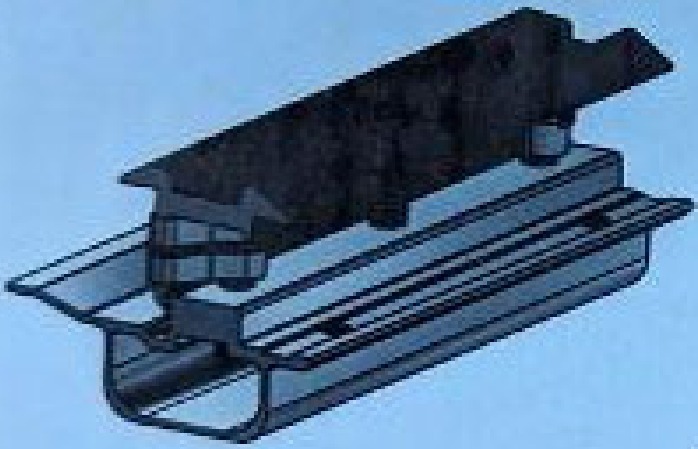






# 30MM SPLICE 6.5" SFM

**UNIRAC**<sup>®</sup>  
BETTER SOLAR STARTS HERE



**253010U**



PACKAGE QTY: 30 EA  
WU/POR: 0046348-01  
MANUFACTURE DATE: 06/2023  
FACTORY CODE: 026A



California Proposition 65 WARNING: Cancer & Reproductive Harm. [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

UNIRAC.COM/UNIRAC13





Designated Competent Person - Fill out this portion of the form

Nearest Urgent Care (circle one)	<b>Eastford Health Hospital</b>
Nearest Emergency Room:	<b>Drighthead Dr. Haysden 40</b>
Safety Contact:	<b>Henry Mull (838) 496-5514</b>
Additional Notes:	

**\*In Case of Emergency, call 911 immediately and proceed to the nearest emergency room\***

For non-emergency injuries, please report the injury to your manager, follow the Injury Standard Operating Procedures - Notify managers.

Workers Compensation Provider: Berkshire Hathaway Homestate Companies

Berkshire Hathaway Address: PO Box 881716, San Francisco CA 94188

Berkshire Hathaway Fax Number: (800) 641-6984

Berkshire Hathaway Policy Number: BAWC225025 (OR, IL) - BAWC225838 (all other states)

Blue Raven Fax Number: (885) 438-608

Report Injury



Customer Name: **To District**

Installation Date:  
**10/2/13**

Job Hazard Analysis

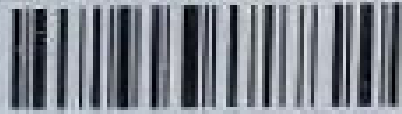
Address: **119 Dawsford Dr, Frying-pan  
Mo. 64644 8798**  
Residential Collection Point  
**Lee**



**BLUE RAVEN**

Activity	Hazards	Steps to Mitigate	Confirm
Climbing Ladders	Fall Hazards	<input checked="" type="checkbox"/> Ladder standoff/buffers installed <input checked="" type="checkbox"/> Secured with ladder strap <input checked="" type="checkbox"/> Inspected for damage <input checked="" type="checkbox"/> Set up at a 3:1 ratio	initial Y.B.
Working over it	Falls from roofs Falls from attics	<input checked="" type="checkbox"/> Harness/Repetitor/Tools Inspected <input checked="" type="checkbox"/> Anchor points installed correctly <input checked="" type="checkbox"/> Hook on off over it <input checked="" type="checkbox"/> Fall restraint in use <input checked="" type="checkbox"/> Fall arrest in use <input checked="" type="checkbox"/> Potential swing fall identified	initial Y.B.
Work in high 85°-95° to extreme 100°+ heat	Heat stress/heat exhaustion/heat stroke Sunburn	<input checked="" type="checkbox"/> Awareness - buddy system/ breaks when necessary <input checked="" type="checkbox"/> Hydration (water available) <input checked="" type="checkbox"/> Accessories	initial Y.B.
Working within the RAC	Struck by hazard (falling objects)	<input checked="" type="checkbox"/> Everyone within RAC wearing hardhat <input checked="" type="checkbox"/> All four sides of RAC extended	initial Y.B.
Electrical work	Electrical shock/Electrocution Arc Flash	<input checked="" type="checkbox"/> Arc flash PPE: CAT's chaps, pants, safety glasses, face shield, boots, megaph, electrically insulated gloves within 2' of exposed live components, CAT's arc flash gloves within 1' of electrical work	initial Y.B.
Other/general hazards	Struck by flying objects (tools) Cut hazards Ergonomics hazards (strain)	<input checked="" type="checkbox"/> Safety glasses worn at all times <input checked="" type="checkbox"/> Cut 4 gloves worn at all times <input checked="" type="checkbox"/> Proper lifting techniques/ team lifting	initial Y.B.
Other Tasks	Other hazards	<input type="checkbox"/> Steps to mitigate (specify)	initial

Crew Members	
Name	Signature
Crew Lead: <b>Frankie Schultz-Mueller</b>	<i>[Signature]</i>
<b>Michael Bryan</b>	<i>[Signature]</i>
<b>Eric</b>	<i>[Signature]</i>
<b>Travis Johnson</b>	<i>[Signature]</i>



EU/Canada Contact: REC Solar EMEA GmbH  
 Kaiserstr. 219, 81827 Munich, Germany, Tel: +49 (0)89 487-38380  
 For other regions see www.recgroup.com/contact

Made in Singapore by REC SOLAR PTE LTD  
 50 TUAS SOUTH AVENUE 14, SINGAPORE 637312, SINGAPORE

For this component, use min. 4 mm<sup>2</sup> (12 AWG) UL PV wires insulated for 60V, 90°C

ATTENTION: NE PAS DECONNECTER SOUS TENSION

Avertissement: Risque de choc électrique. Ce module solaire produit de l'électricité lorsqu'il est exposé à la lumière.

CAUTION: DO NOT DISCONNECT UNDER LOAD

Warning electrical hazard. The module produces electricity when exposed to light.



— The operation manual for this component is listed in the manual and  
 — The correct connection is shown in a separate sheet of the manual

Manufactured: 10.08.2023

	<p>420 W          0/+10 W          +/- 3%          50.0 V          8.40 A          58.4 V          8.89 A          1000 V          25 A          25 A          Maximum Series Fuse (DC) (IEC)          Maximum Series Fuse (DC) (UL)          Maximum System Voltage (Vsys)          Short Circuit Current (Isc) (+/- 3%)          Open Circuit Voltage (Voc) (+/- 3%)          Rated Current (Imp)</p>
<p>REC 0179 0216          1410 0130 2016</p>	<p>Design Load          +4666 / -2666 Pa*          +2000 / -4000 Pa*          *Values at STC, 1000 W/m<sup>2</sup> AM 1.5, cell temp. 25°C</p>
<p>ETL          LISTED          58-0118</p> <p>• Certified in accordance with IEC 61215 and IEC 61739-1          • Certified in accordance with IEC 61215 and IEC 61739-1          • Certified in accordance with IEC 61215 and IEC 61739-1</p>	<p>Rated Voltage (Vmp)          Power Production Tolerance          Watt Class Sorting          Power Output (Pmax)</p>

REC Alpha Pure-R Series  
 REC420A Pure-R  
 Serial Number: FBB-7005389650  
 Phone: +49 89 487 38380  
 www.recgroup.com







FLASHKIT SFM TRIM S

004201D



FLASHKIT SFM TRIM S COMP DARK

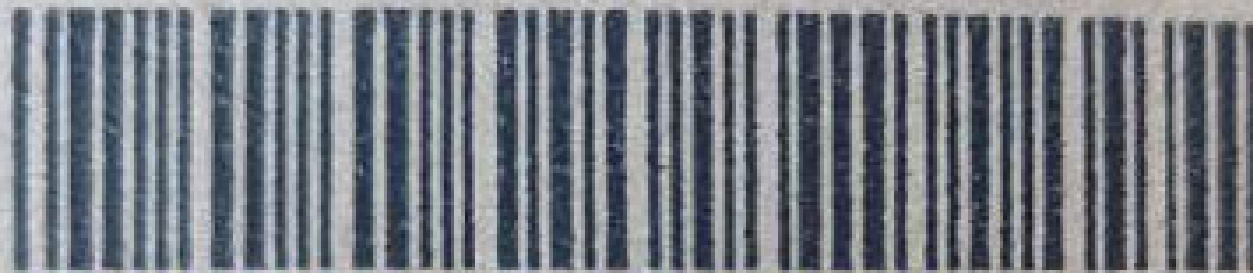
Pack Size: 10

Factory Code: 5-1



W01PC9 0045416-00 Manufacture date: 2/10/22-3/10/22

8 10039138212 09



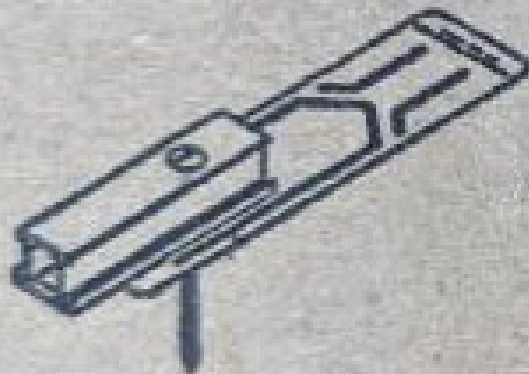
**FLASHKIT SFM SLIDER S**

004271D

FLASHKIT SFM SLIDER S COMP DRK

DARK Pack Size: 10

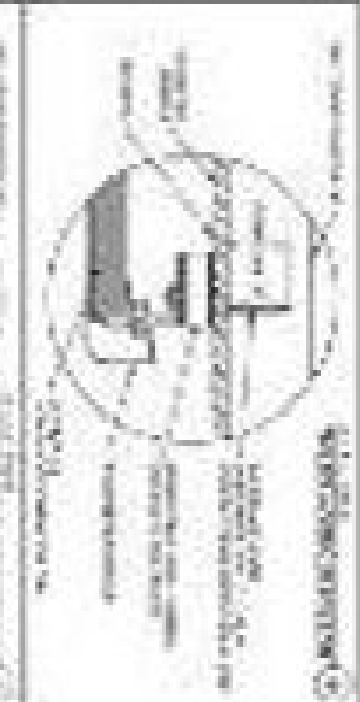
Factory Code: 5-1



WO/PO# 0045416-00 Manufacture date: 3/10/22-4/10/22

8 10039 36213 8





Date: \_\_\_\_\_  
 Page: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Roll No: \_\_\_\_\_  
 Class: \_\_\_\_\_

1. Water Pump  
 A water pump is a mechanical device that moves water from one place to another. It is used in many applications, such as irrigation, industrial processes, and household water supply.



The water pump is a mechanical device that moves water from one place to another. It is used in many applications, such as irrigation, industrial processes, and household water supply.

Date: \_\_\_\_\_  
 Page: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Roll No: \_\_\_\_\_  
 Class: \_\_\_\_\_

Part	Function	Material
Piston	Converts the energy from the crankshaft into mechanical work.	Cast Iron
Cylinder	Provides a space for the piston to move and compress the water.	Cast Iron
Shaft	Transmits the mechanical energy from the handle to the piston.	Steel
Handle	Provides a means for the user to operate the pump.	Steel
Crankshaft	Converts the reciprocating motion of the piston into a rotating motion.	Cast Iron
Flywheel	Stores energy to keep the pump running smoothly during the suction stroke.	Cast Iron

Date: \_\_\_\_\_  
 Page: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Roll No: \_\_\_\_\_  
 Class: \_\_\_\_\_















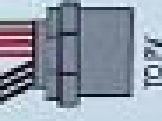
RoHS compliant

Only used by trained installers in accordance with the system  
wiring diagrams for the correct use of the device. Do not use the device for  
any other purpose.

#### ALLIEDS

• **Green** - Main system when software update is in progress.  
• **Red** - Faulty system when (2) battery is loading up.

See Power IQ-100 or 1000 for more details. Do not exceed 200mA.  
While operating, verify the input current is off the output, before proceeding with any.



10 PV



## IQ Combiner 4

Photovoltaic

Combiner Box

X2-IQ-AM1-240-4

IEEE1547:2018 COMPLIANT



#### Electrical ratings:

Voltage 240VAC, 60Hz

DC Inverter 80A MAX (combined)

DC Input 64A MAX (combined)

Output 65A MAX, 90A MAX feeder OCPD

Temperature -40°C MAX ambient

For DC breakers, use only Eaton BR series.

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202324027052

883-80383 18

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Dedicated solar and IQ Combiner sizes - do not add loads  
to AMB or IS-AMB-IQ Gateway Breaker not used for backfeed

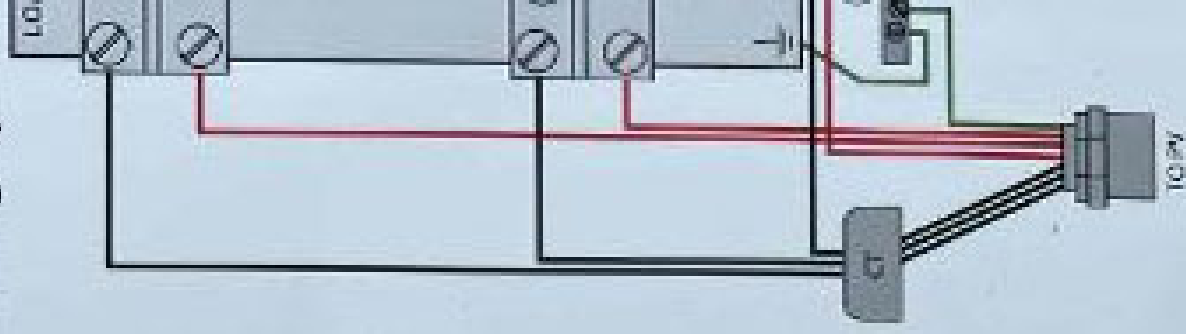
Connection	Wire size	Torque
DC Breaker (1, 2, 3, 4)	14-10 AWG	2.3 Nm (20 lb-in)
	8 AWG	2.8 Nm (25 lb-in)
	6-4 AWG	3.0 Nm (27 lb-in)
60A Circuit Breaker only	4-10 AWG	5.0 Nm (45 lb-in)
	14-10 AWG	2.35 Nm (20 lb-in)
Neutral and ground	Large screw	5.6 Nm (45 lb-in)
	Small screw	5.1 Nm (45 lb-in)
Main lug	6 AWG	3.6 Nm (32 lb-in)
	8 AWG	2.6 Nm (23 lb-in)
	10-14 AWG	2.3 Nm (20 lb-in)
Main lug	10-4 AWG	5.0 Nm (45 lb-in)
	6-20 AWG	5.6 Nm (50 lb-in)

Copper conductors only, rated min. 75°C  
follow NFPA 70 (NEC), or CSA C22.1 part 1, and all local codes.

For DC Breakers larger than 30A, use wire insulated for 90°C  
based on 75°C ampacity.

Dis gried in California and New Zealand  
Made in Mexico

## For IQ-8 Grid Forming System





Jo Bricker  
1441 Downing Hall  
Dr. Ferguson  
Elec: mitchell  
nguyen

