



MG2-1 PV RAPID
SHUTDOWN EQUIP
(P) 1878559-15-B
(S) GF22515000CGR

MAX DC VOLTAGE 1000V
OPERATING DC VOLTAGE 0-185V
MAX CURRENT 15A

MAX SHORT CIRCUIT CURRENT 19A
SHUTDOWN TIME 100ms
TEMPERATURE -40C TO 70C
NEMA 4XIP65
MADE IN USA







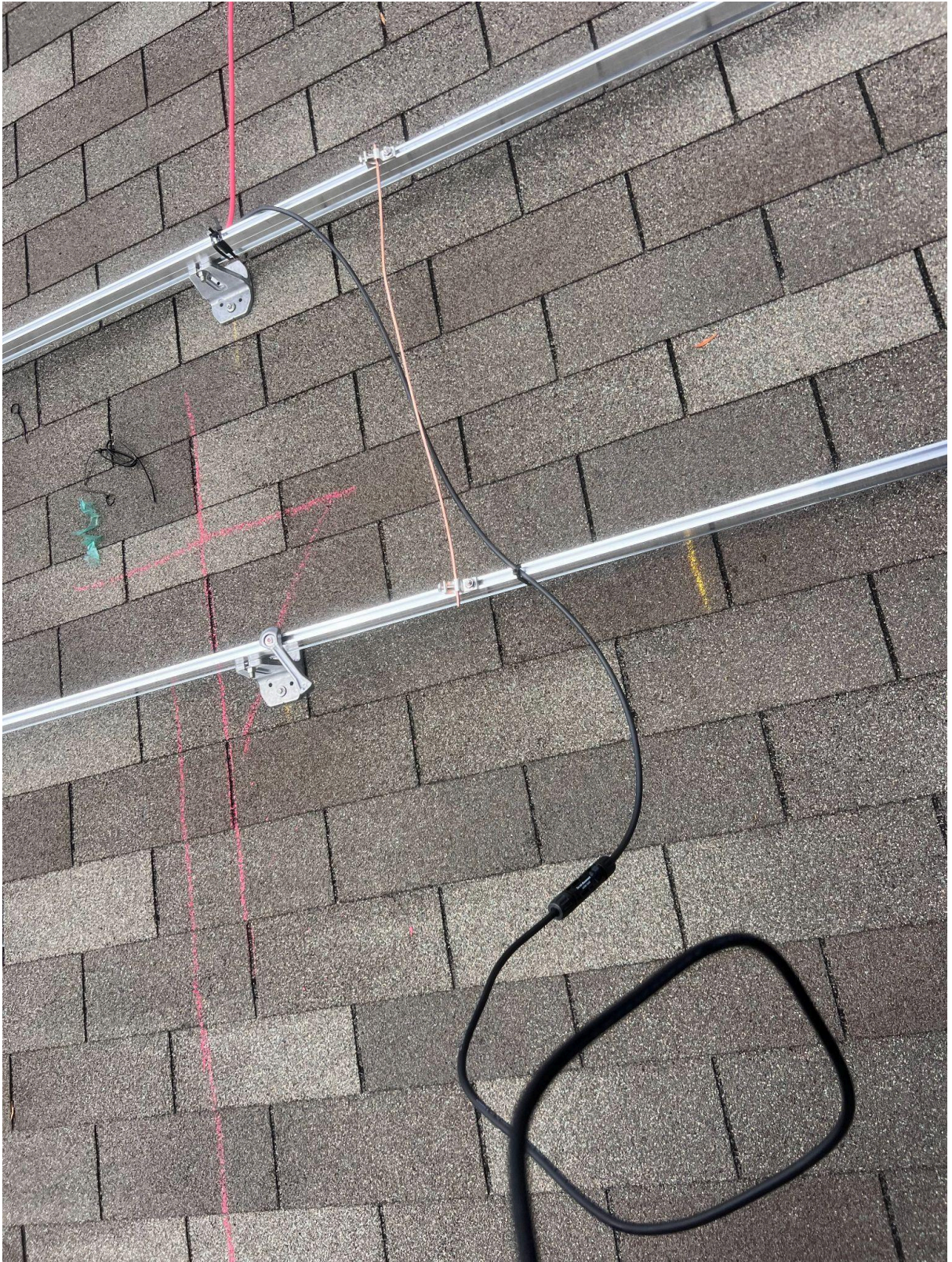


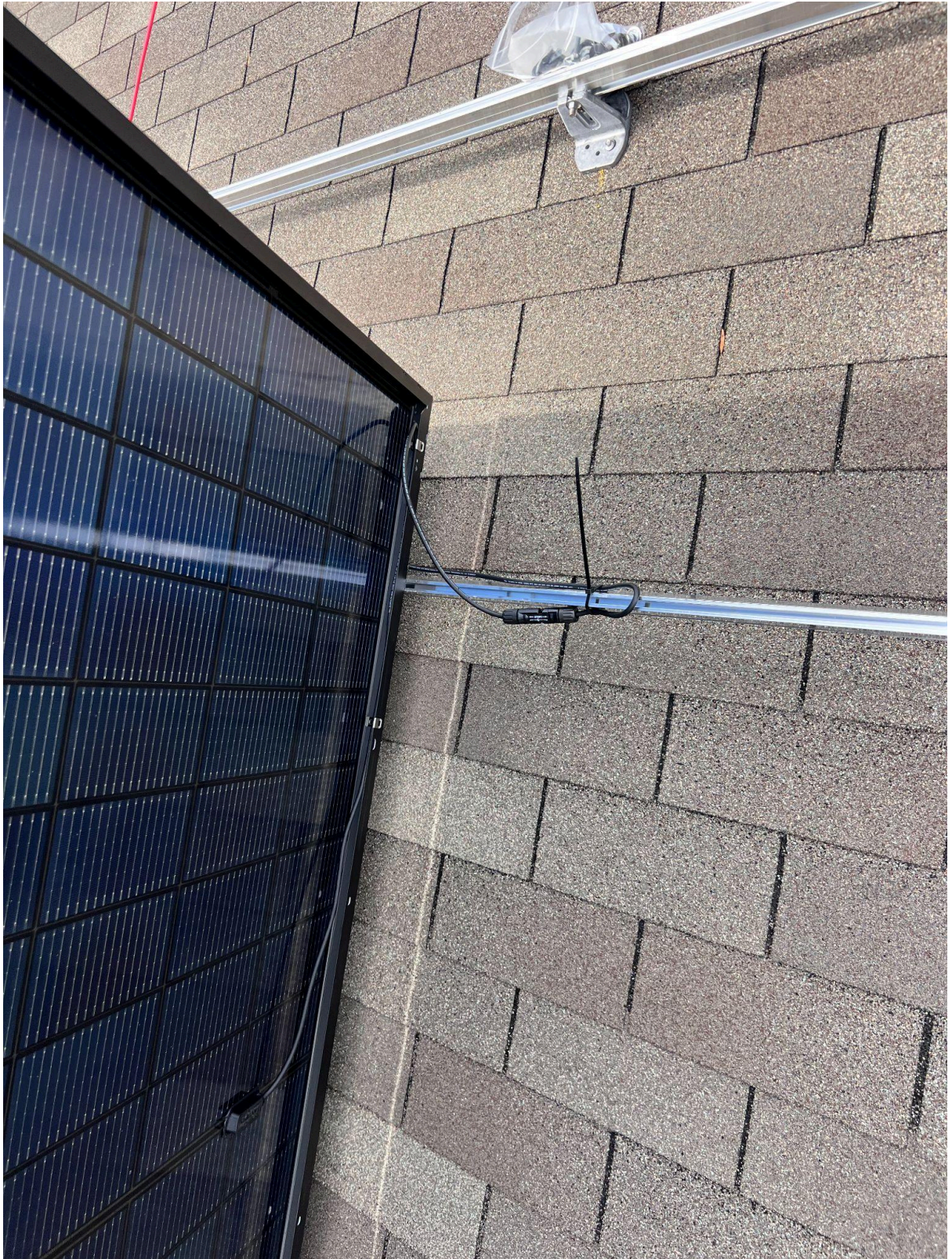




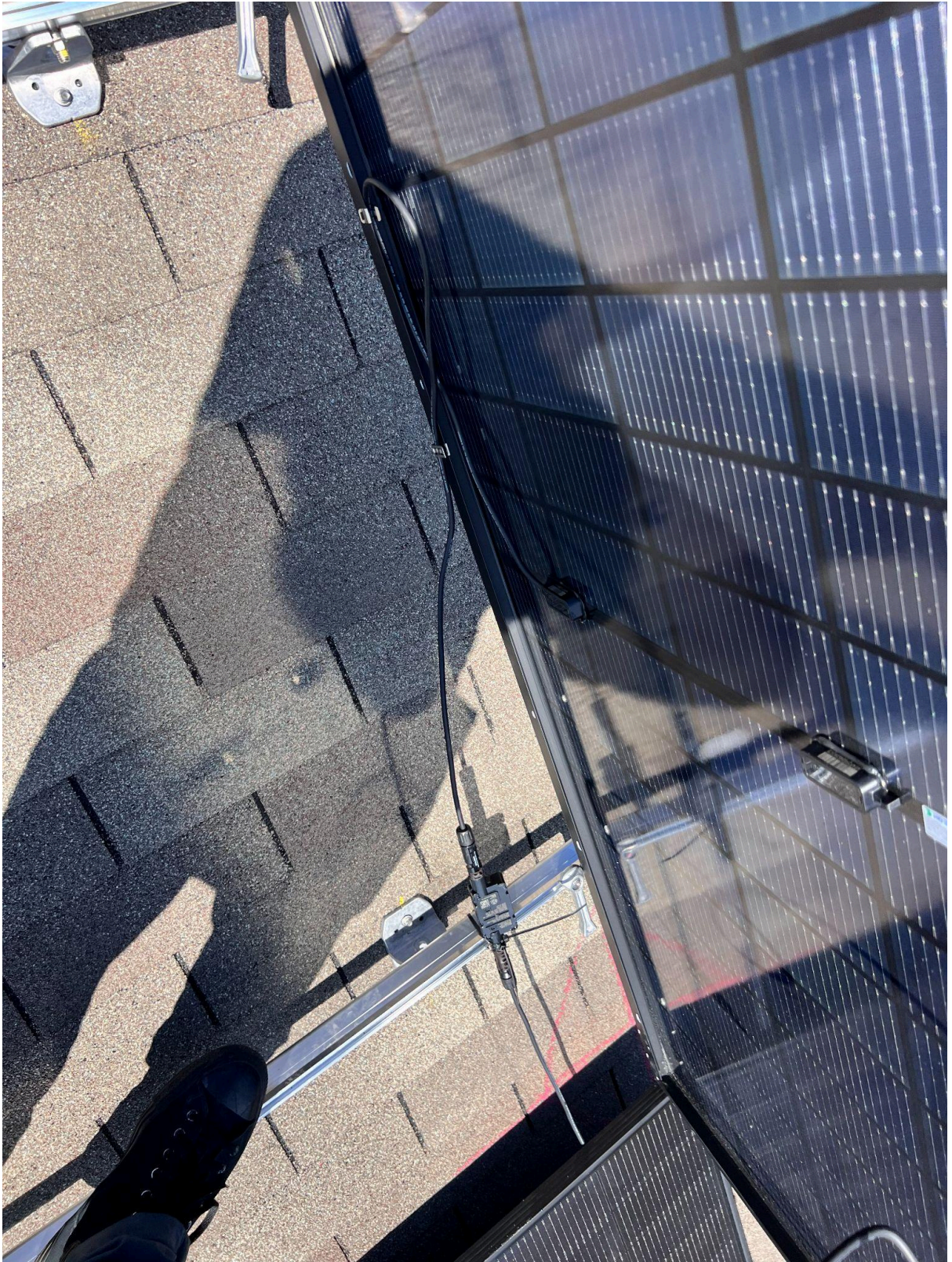


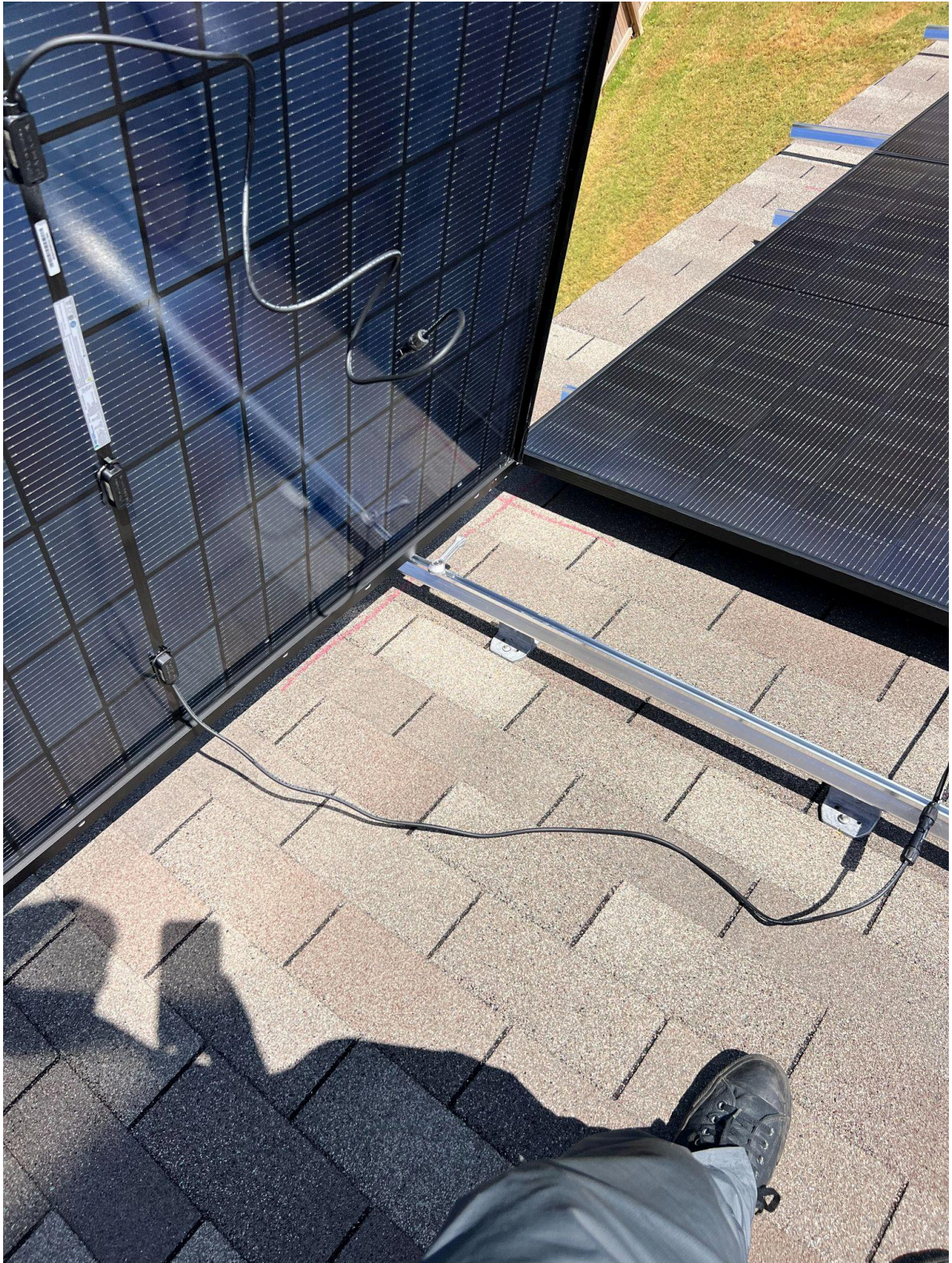


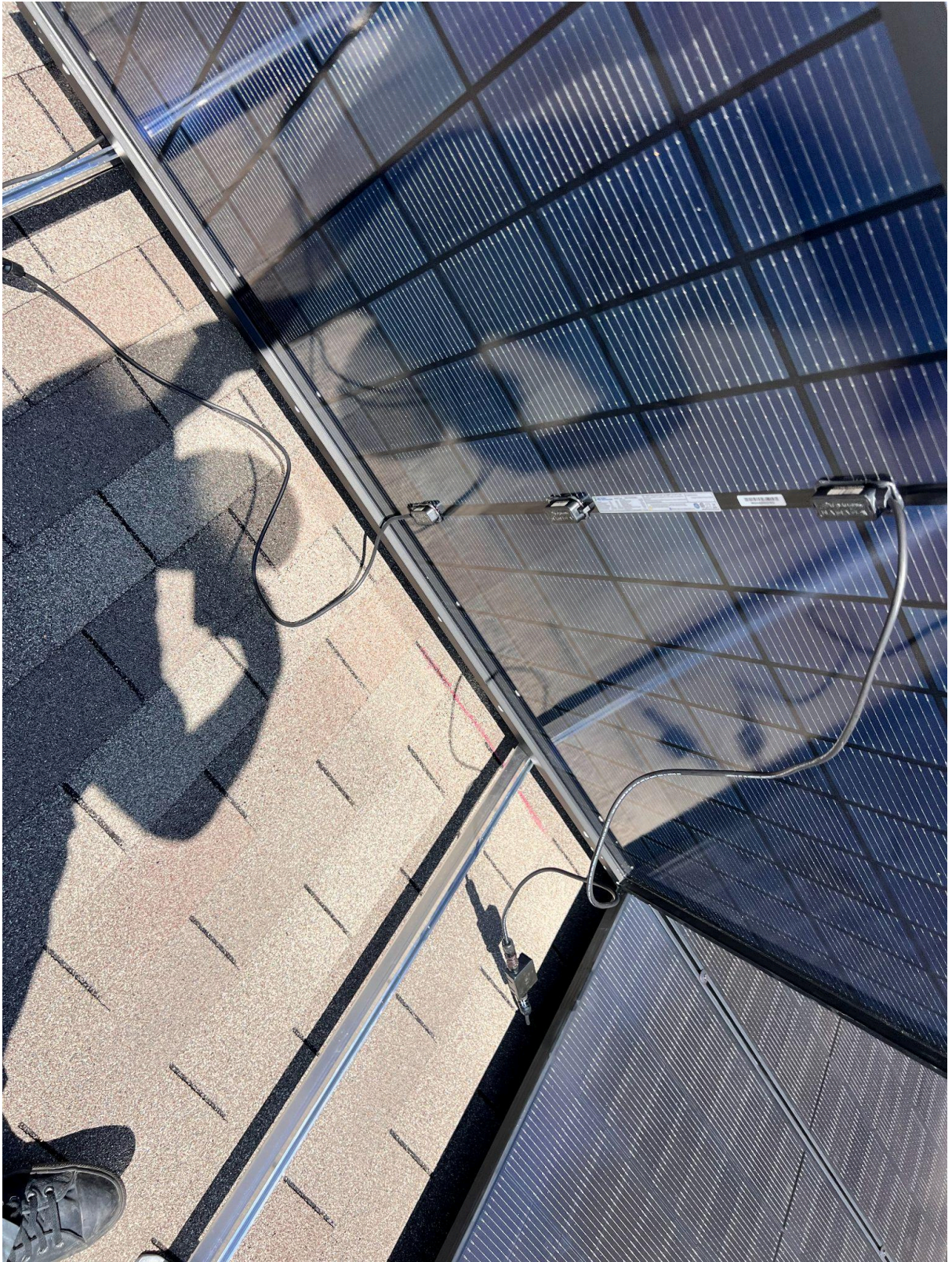


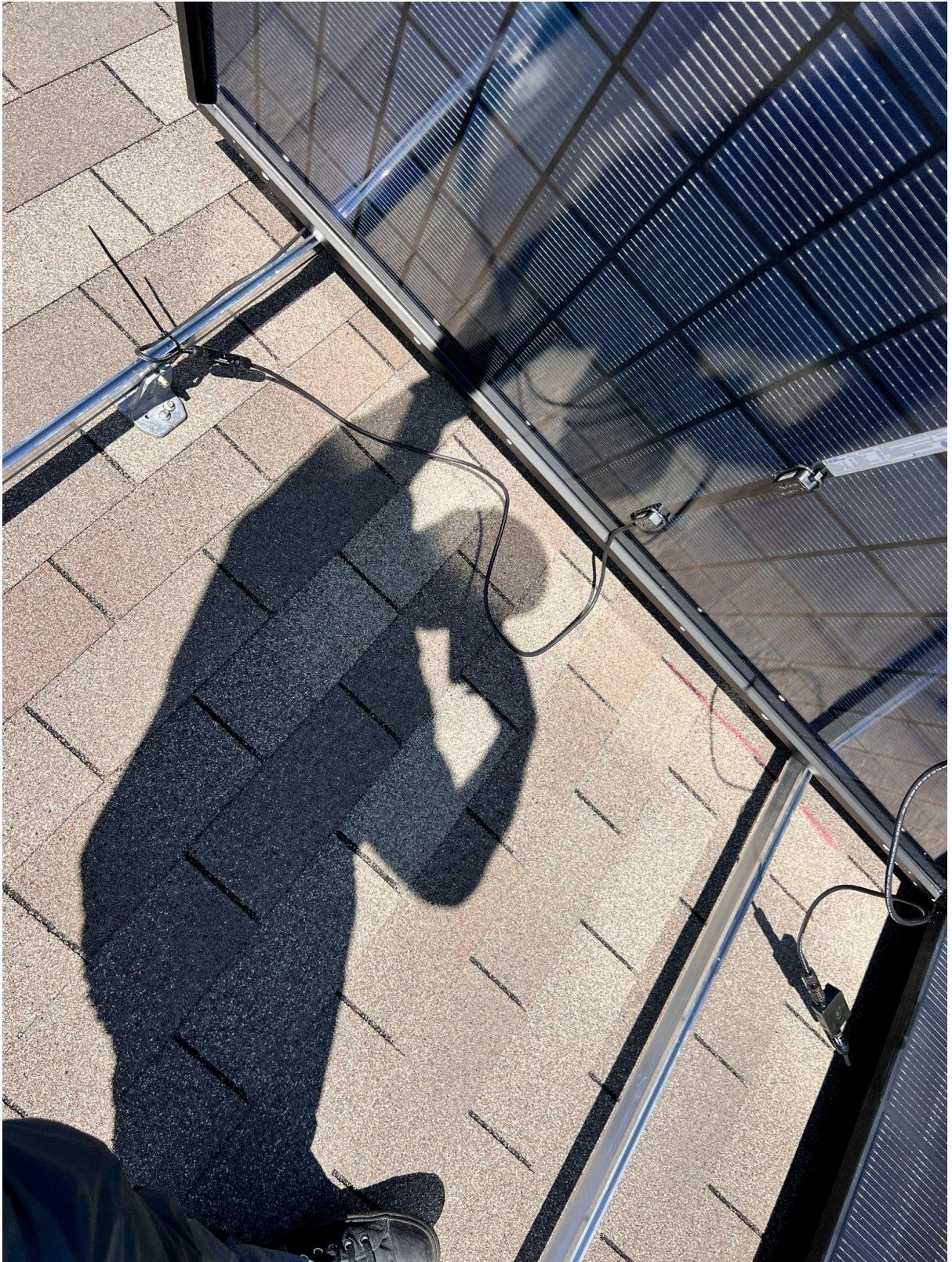


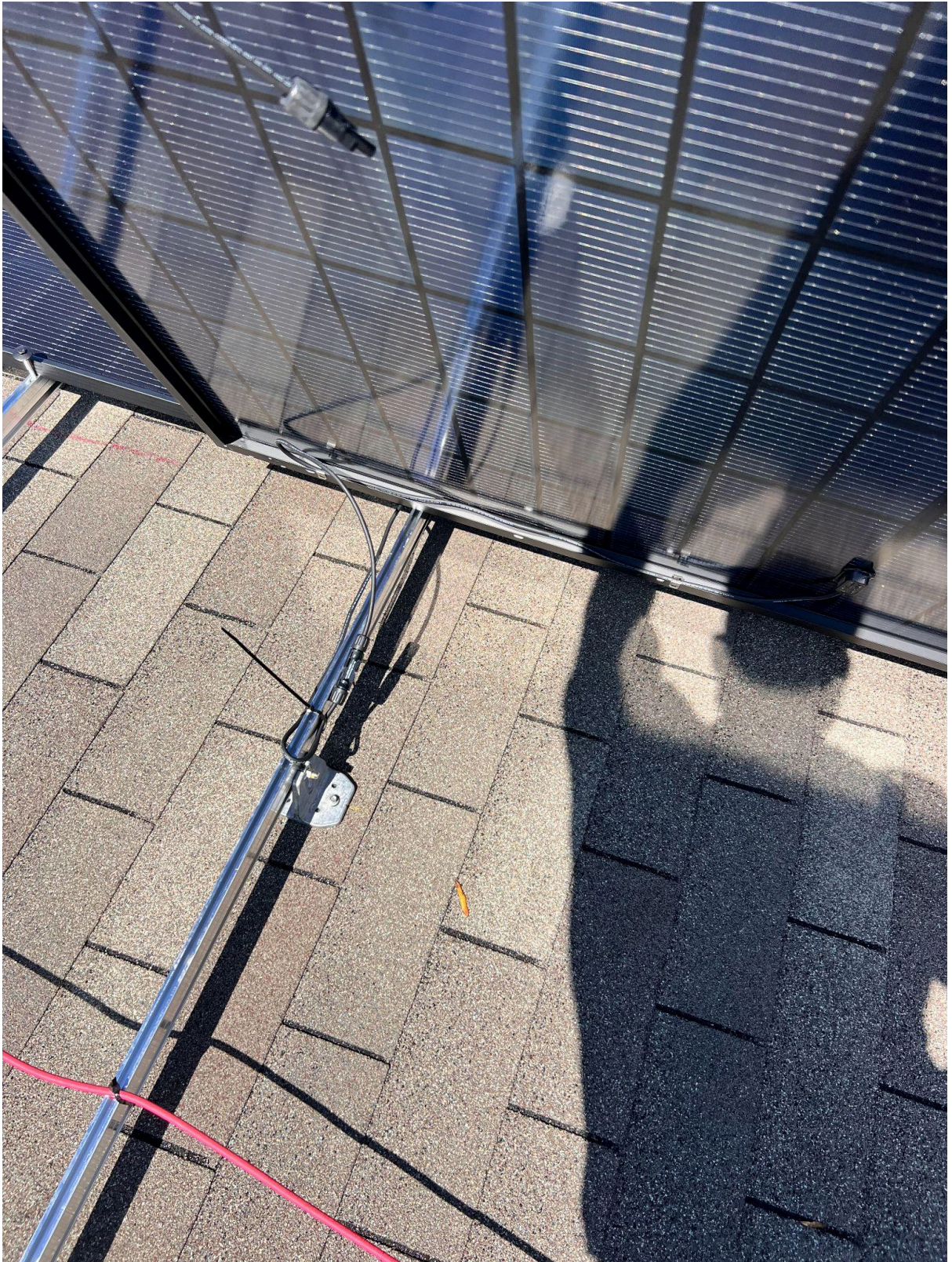


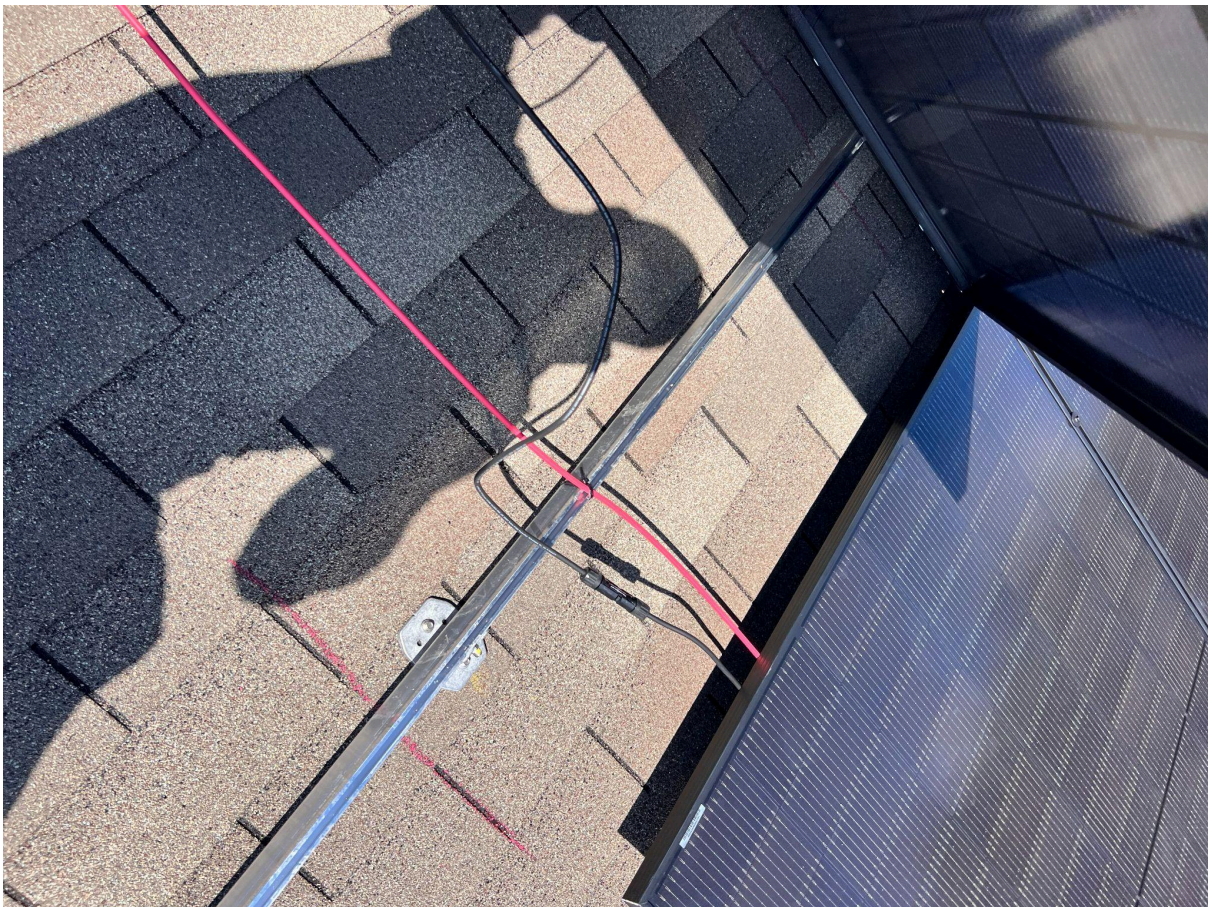
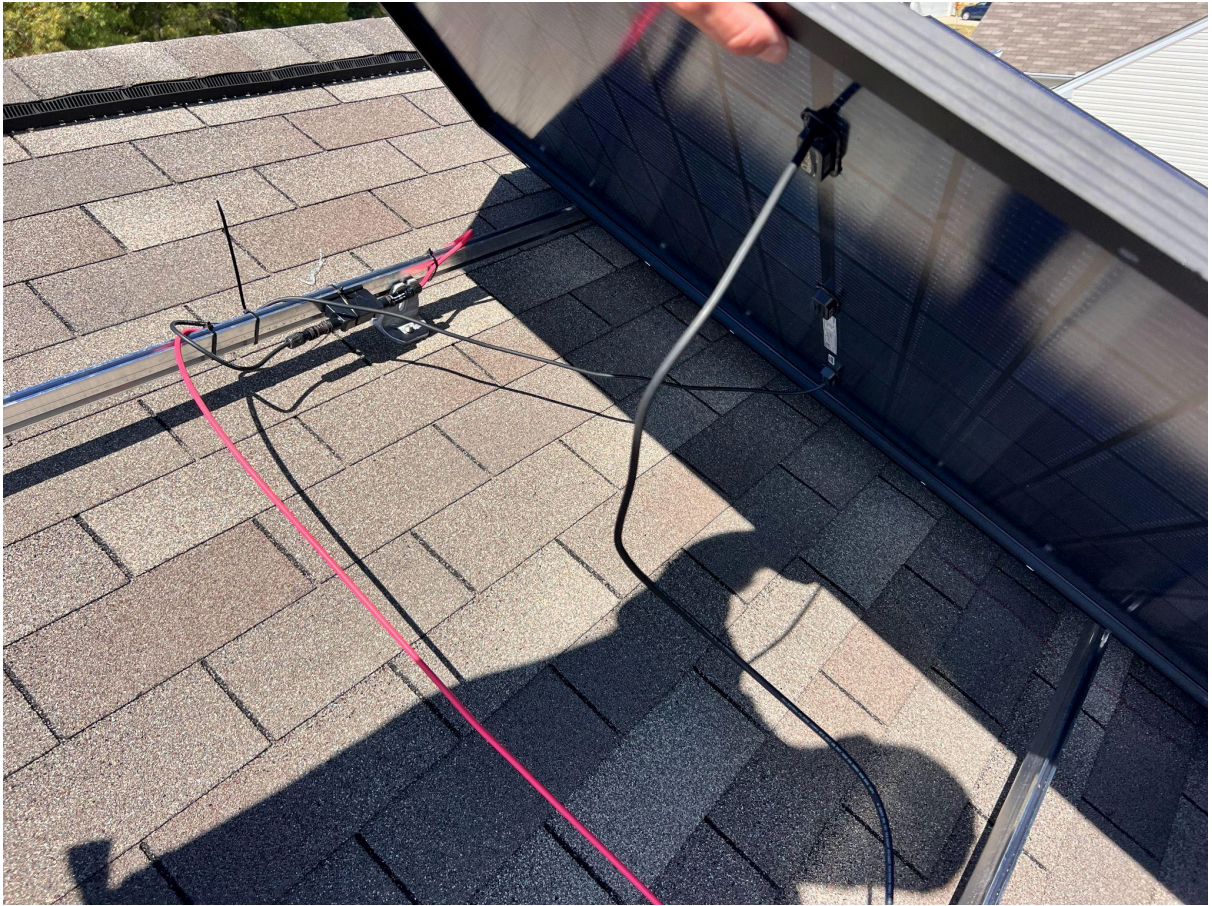




















HD HYUNDAI ENERGY SOLUTIONS

Test Conditions
Maximum Power (P_{max}) Power STC 435W
Maximum Power Uncertainty ±3%
Maximum Power Voltage (V_{mp}) 32.1V
Maximum Power Current (I_{mp}) 13.56A
Open Circuit Voltage (V_{oc}) 38.6V ±3%
Short Circuit Current (I_{sc}) 15.02A ±3%
Bifaciality Coefficient @P_{max}: 80±10% @V_{oc}: 95±5% @I_{sc}: 80±10% aBSI(BSI) Max:

Model Type HiN-T435NF(BK)

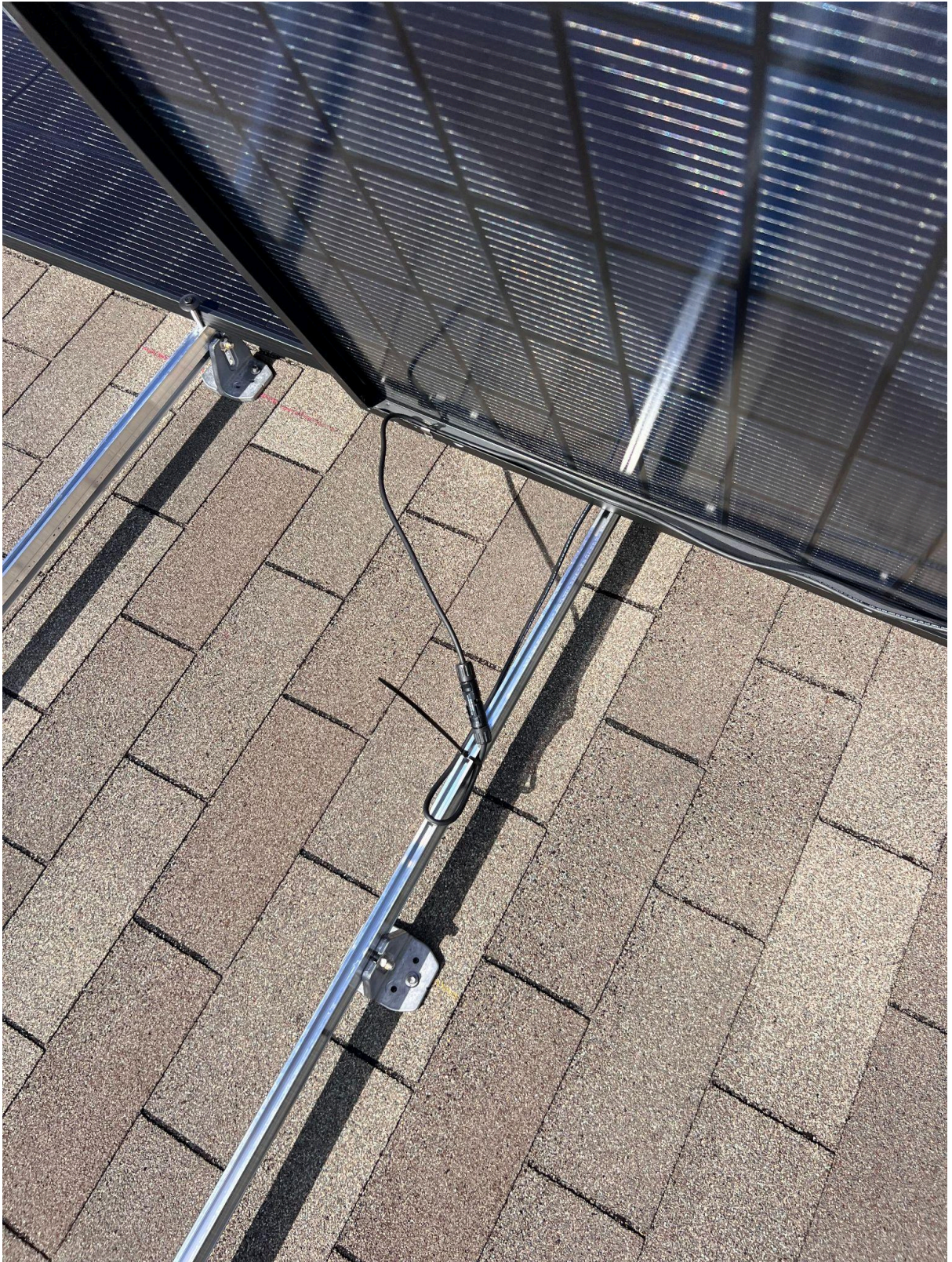
Power Sorting
Maximum System Voltage
Maximum Series Fuse
Cell Technology
Module Classification
Fire Resistance Rating
Module Fire Performance for US market:
Short Circuit Current (I_{SC}): 17.76A ±10%

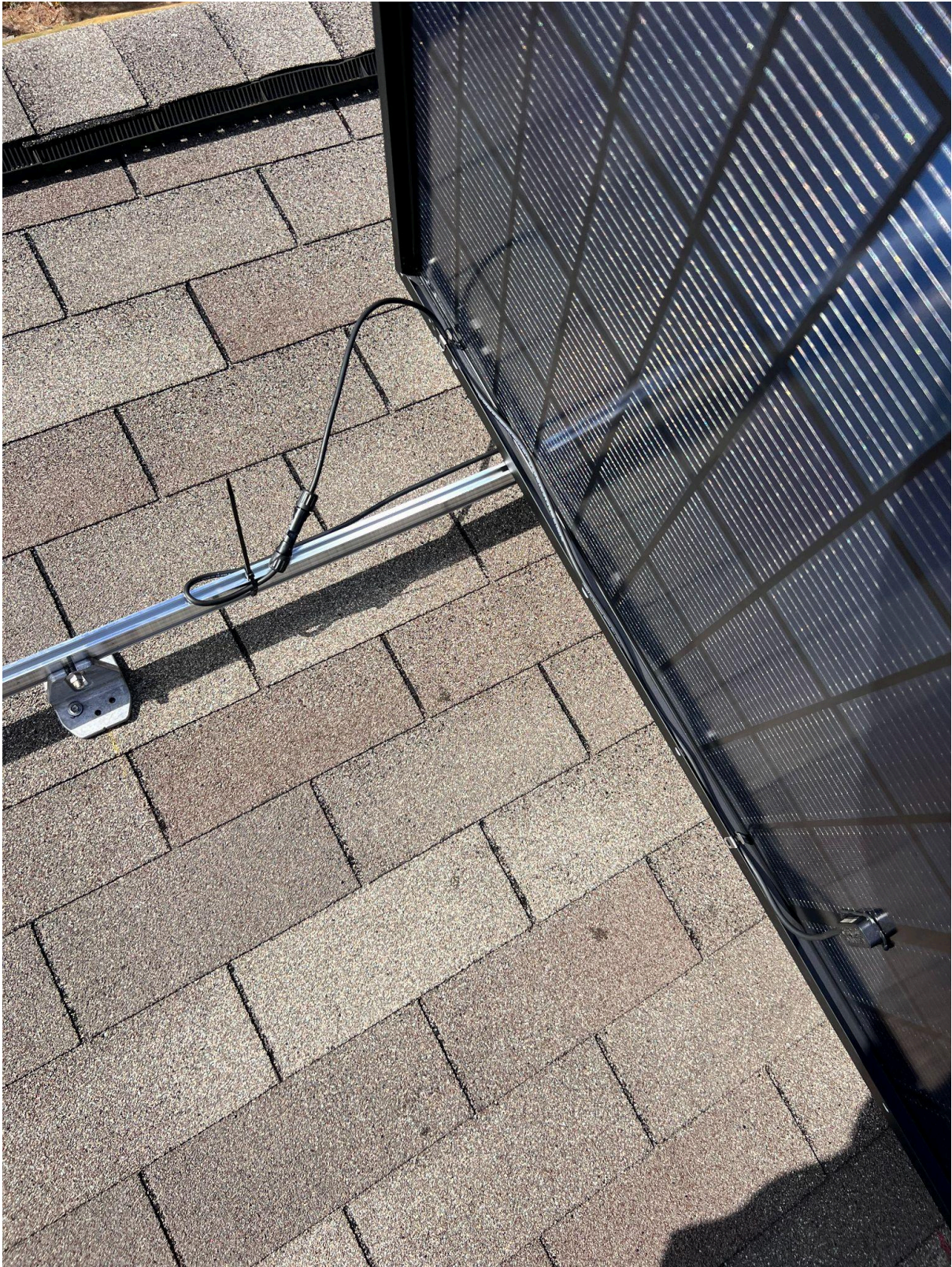
0~+5W
1500VDC
30A
Si Mono
Class II
Class C
Type 29
70°C

STC: 1000W/m² AM
1000W/m² AM
minimum 90°C
See Installation Instruction
Fire Class Rating with this

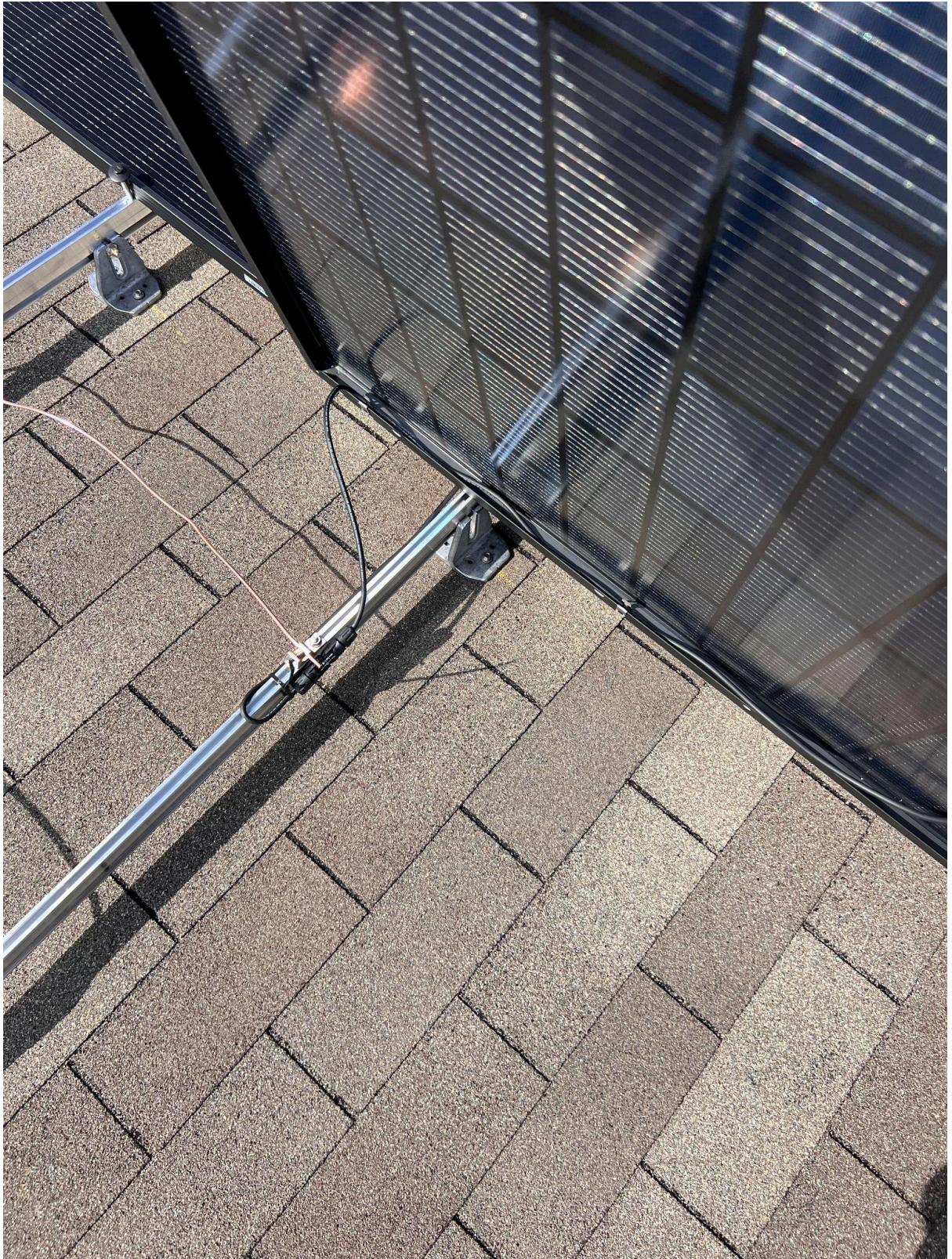
 Hazardous electricity
La tension électrique est
ou la mort. Ne pas toucher

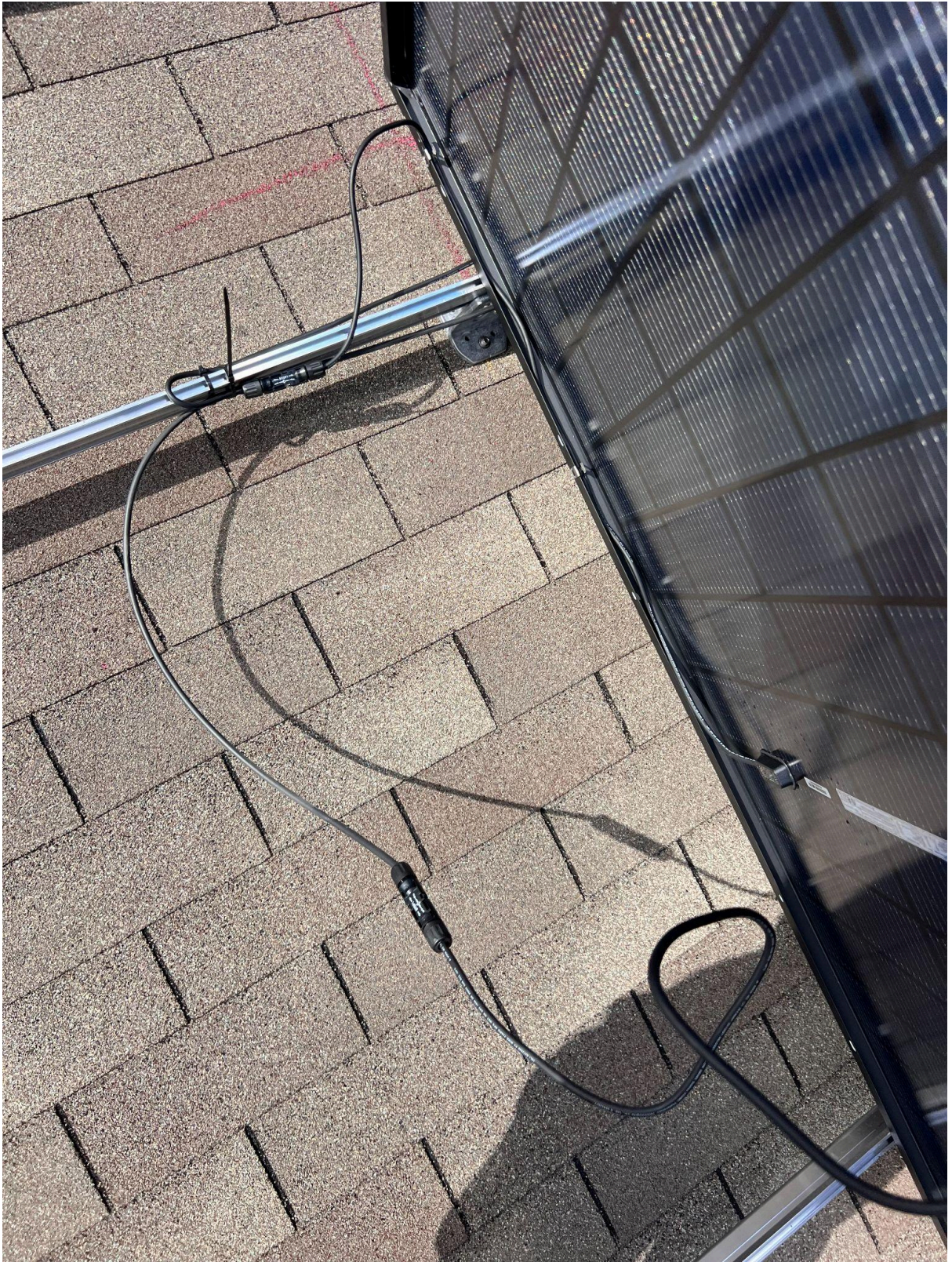


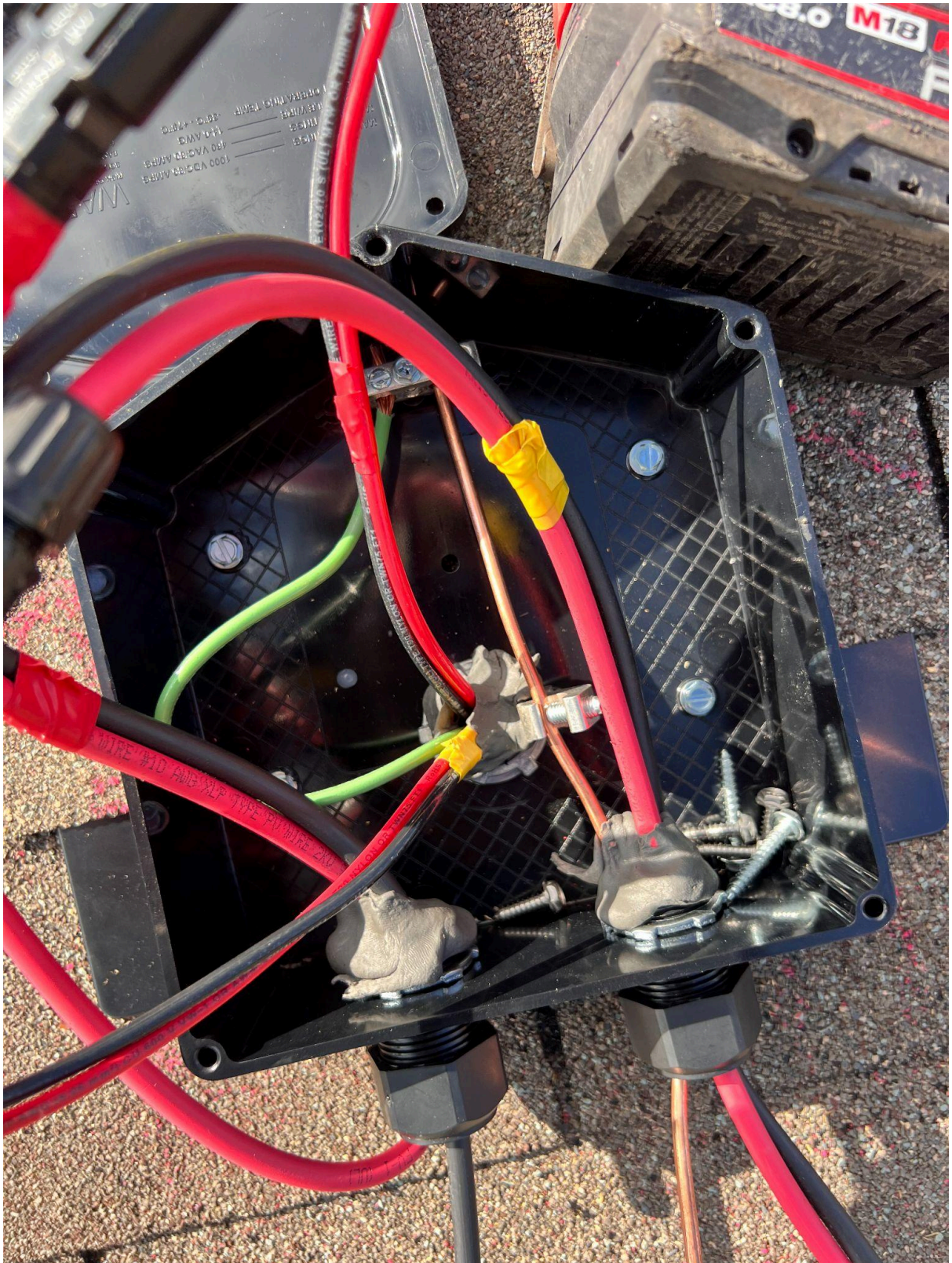


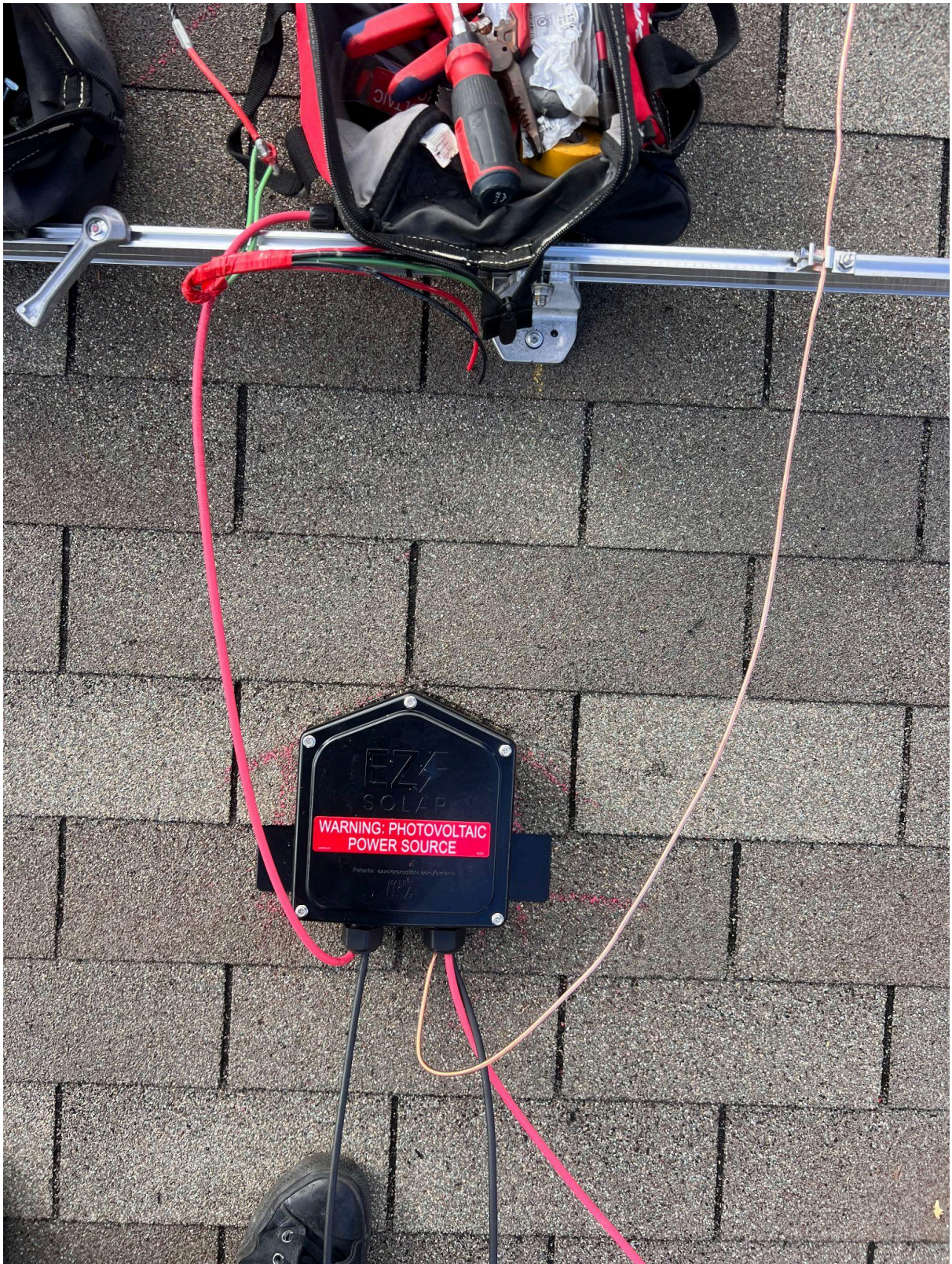


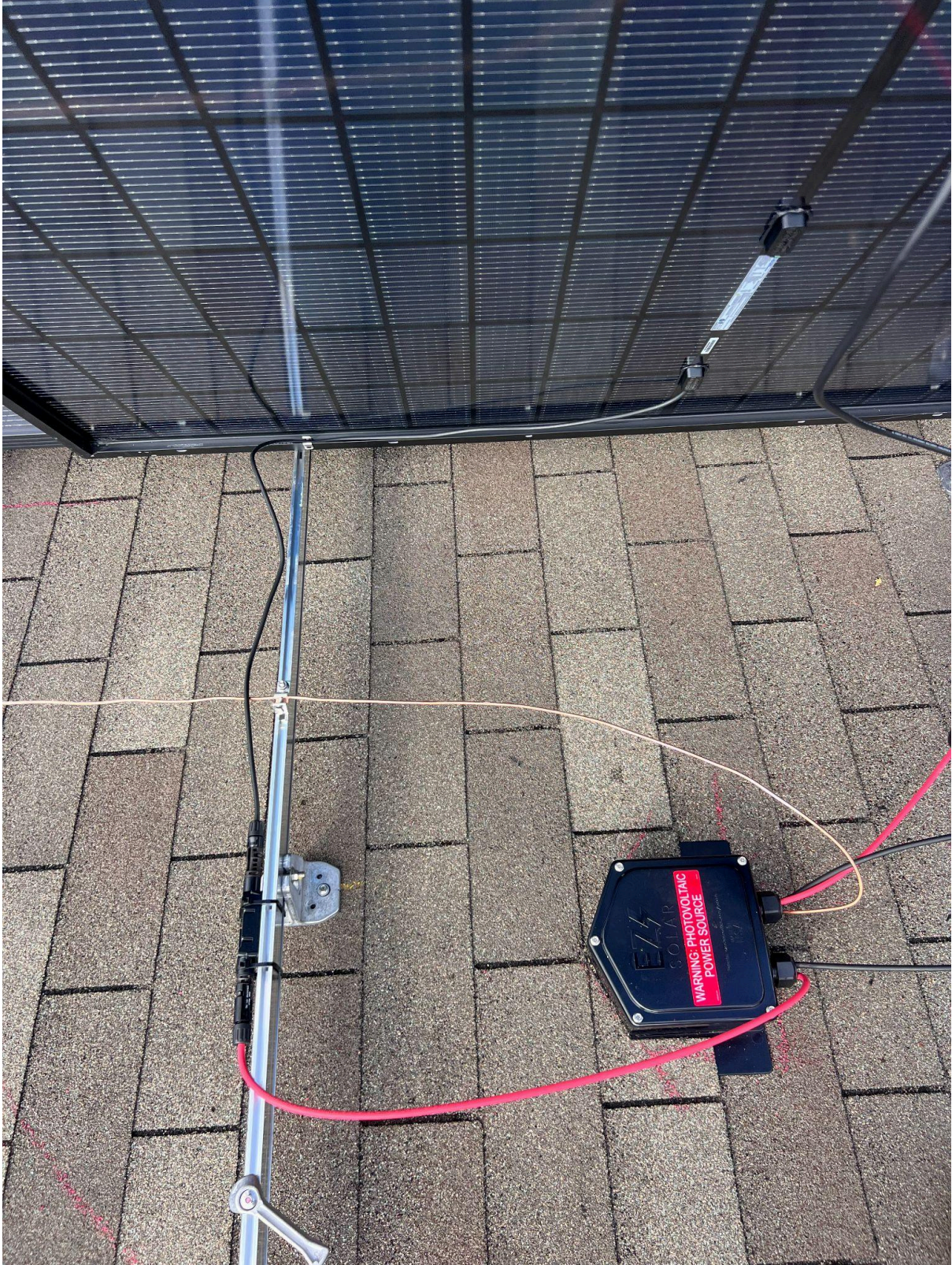


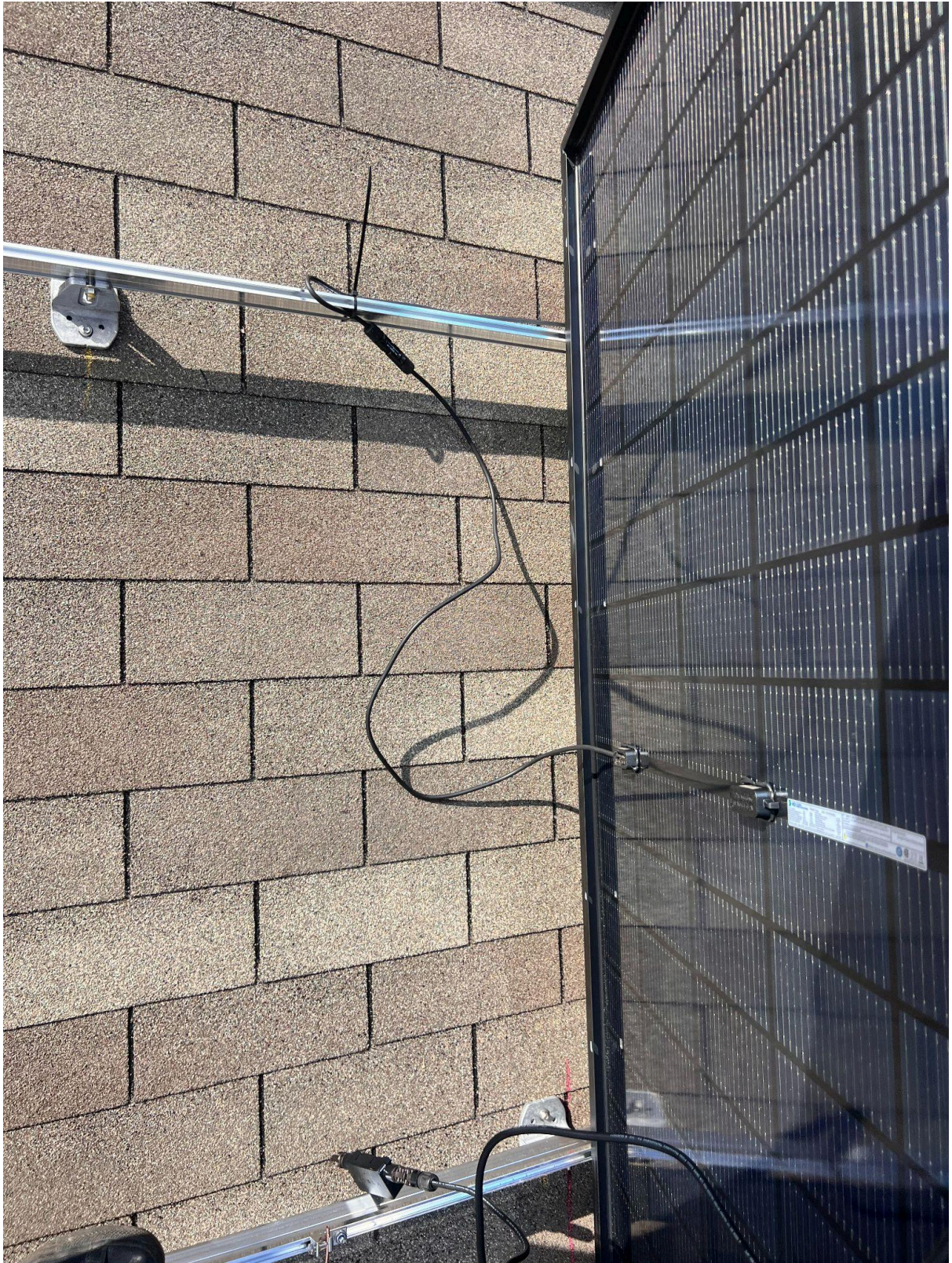




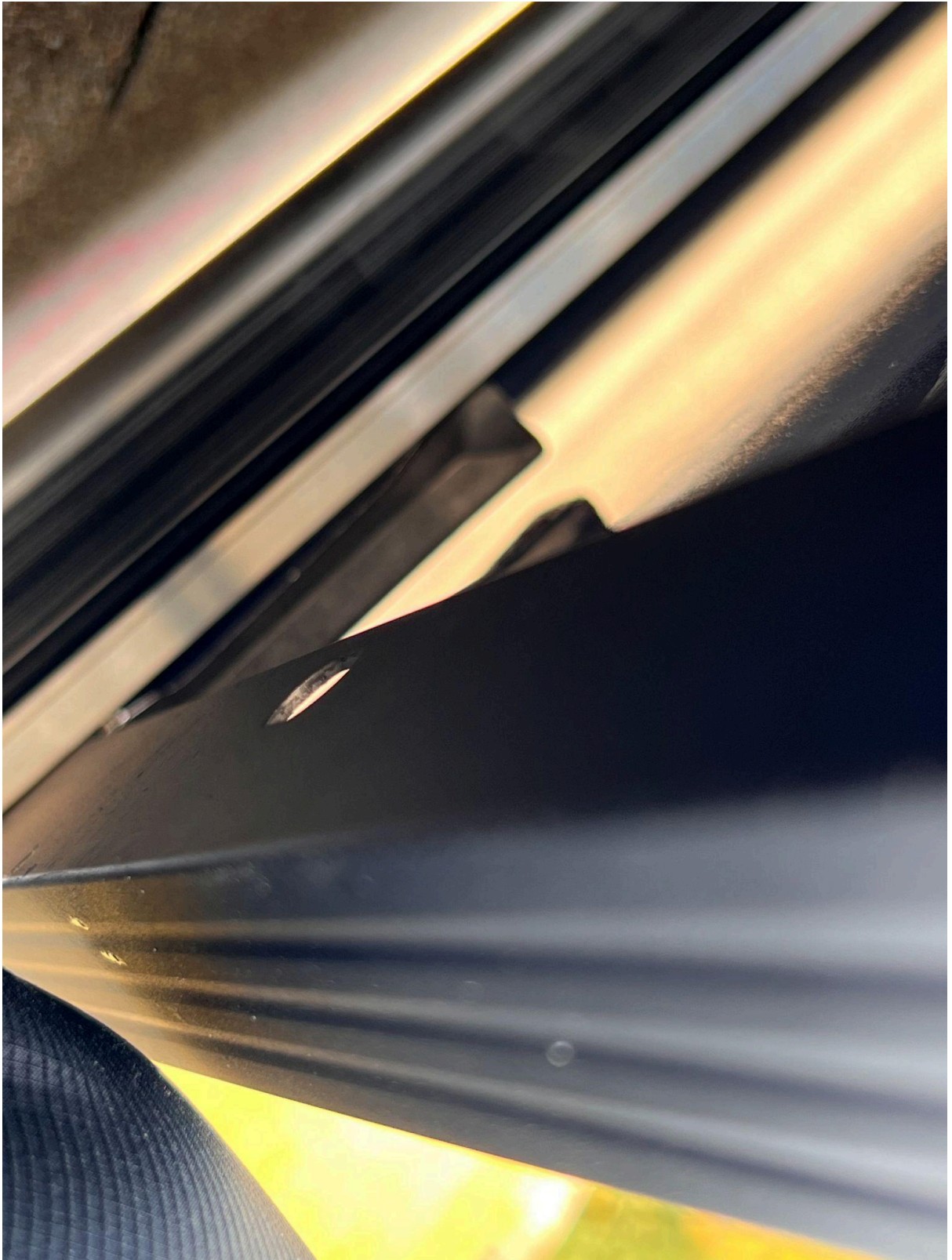












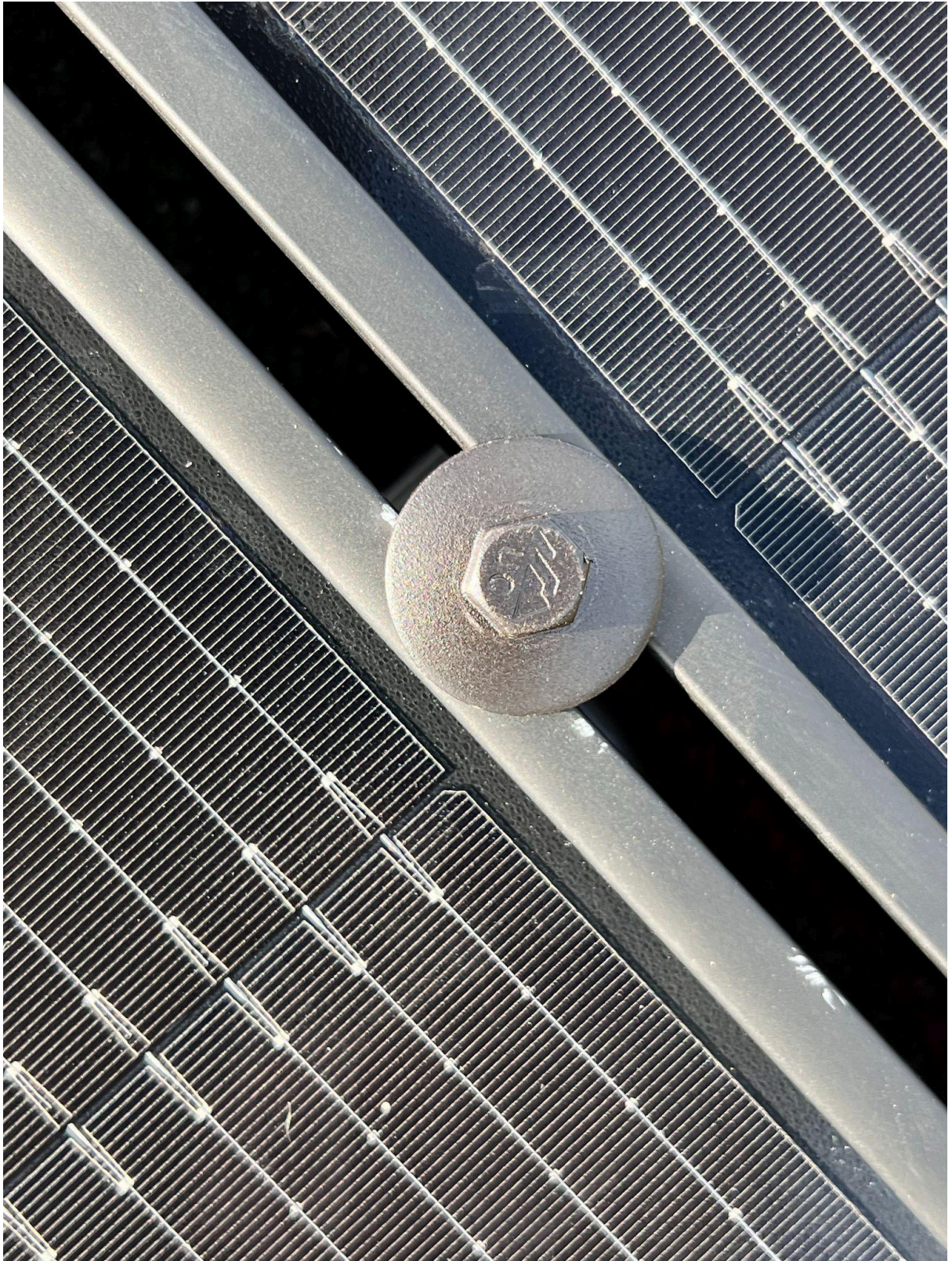
























4:29



System

Devices

Metering

Backup Switch



1624171-90-N--GF2250790006BD

On-Grid (Qualifying)

Powerwall 3



1707000-11-M--TG125136003CKZ

 910W Charging (29%)

 973W

Scan for Devices

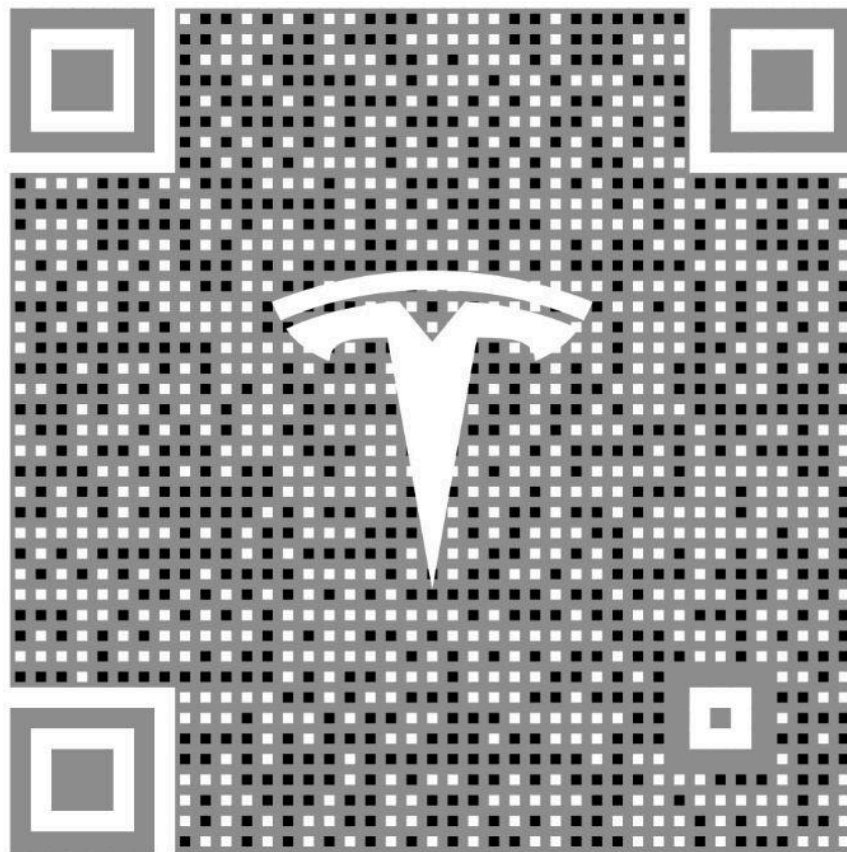
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Customer Registration

QR Code for Customer Registration

After the customer has the Tesla app on their phone, have them scan this code with their camera app.

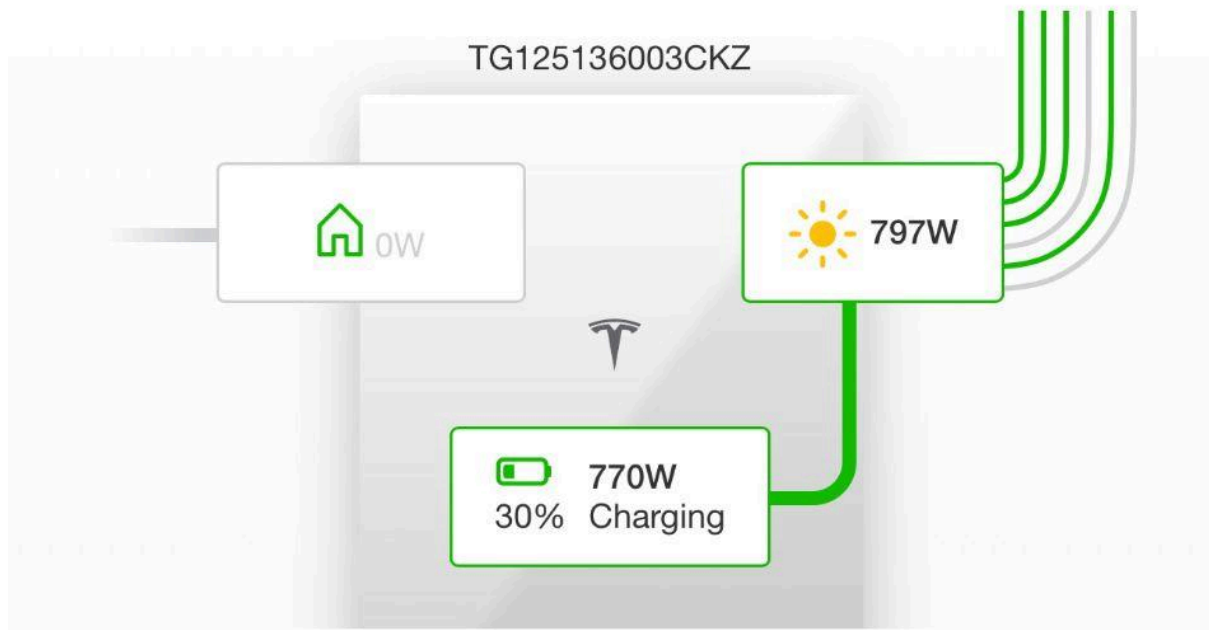


Done

4:37



Powerwall 3

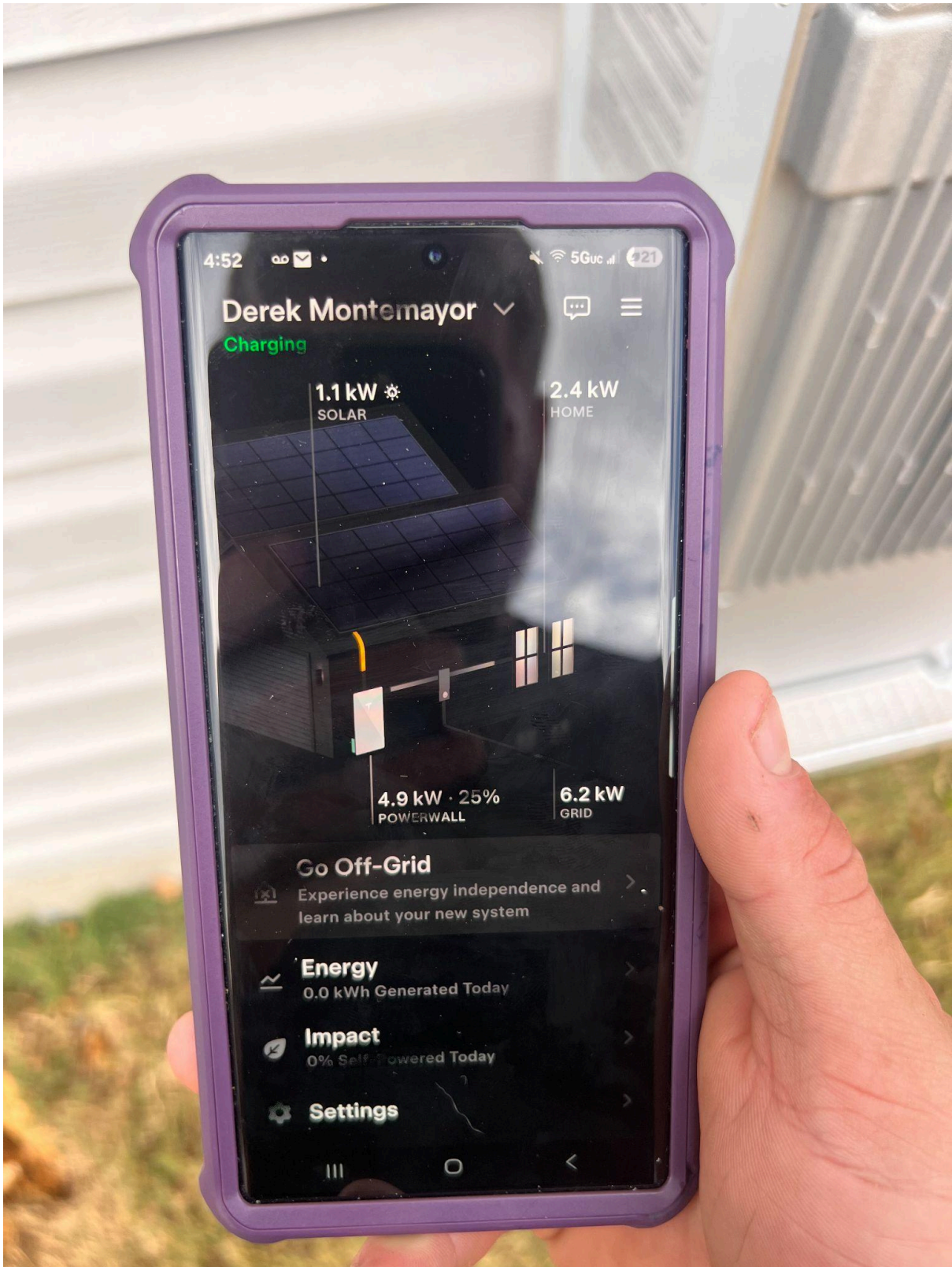


AC Vitals

Max Current Output	48A (11.5 kW) >
Inverter State	Active
Inverter Mode	Grid Following
Frequency	60.03Hz
AC Voltage (L-L)	249.2V
Line 1	124.6V
Line 2	124.6V

Solar DC Inputs

MPPT 1	312V / 1.35A
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4:53

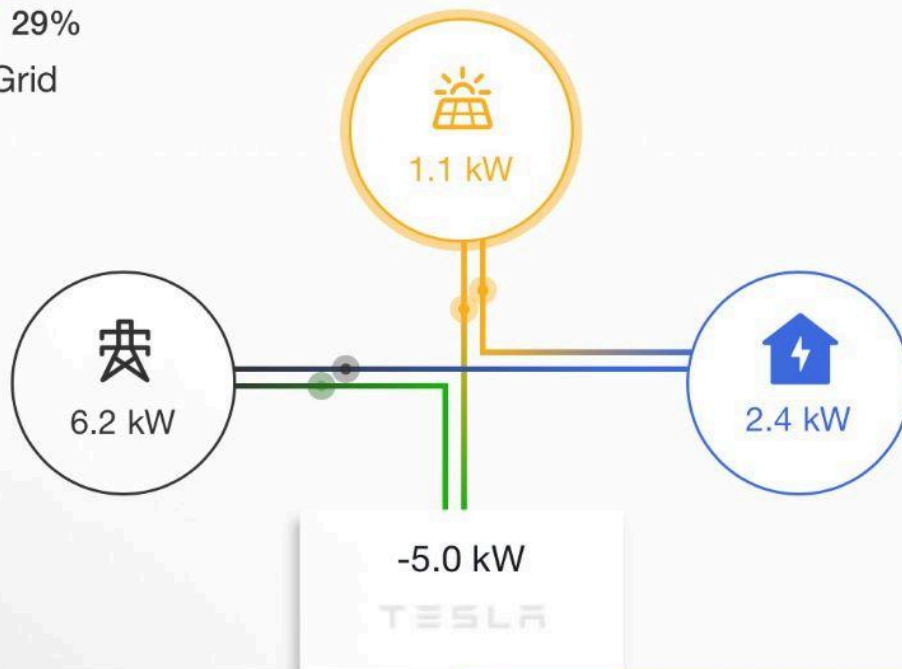
5G 16



Derek Montemayor

 29%

On-Grid



Stop System

System Running



Important Safety Notices



To safely make changes to wiring, ensure the Powerwall's switch is OFF.



System



Settings



Networking



4:53

5G 16



Registration



Installer Info

Wiring Solution Plus,LLC



Customer Registration

Registered



4:53

5G 16



Registration



Installer Info

Wiring Solution Plus,LLC



Customer Registration

Registered



4:53

 5G 16

Summary

Equipment

Site Name	Derek Montemayor
Site Controller	1707000-11-M-- TG125136003CKZ
Powerwalls	1707000-11-M-- TG125136003CKZ Max Current: 48A (11.5 kW)
Meters	Backup Switch: 1624171- 90-N--GF2250790006BD (Site, Site)

Operation Settings

Software Version	24.28.202 cc45f87b
Mode	Time-based control
Backup Reserve	24%
Timezone	America/New_York
Network	Wi-Fi
Grid Code	60Hz_240V_s_SMC_IEEE15 47-2018_Category-III
Grid Charging Permission	Allowed
Grid Exporting Permission	Solar Only (Default)

4:53

 5G 16

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4:53



Summary

(Site, Site)

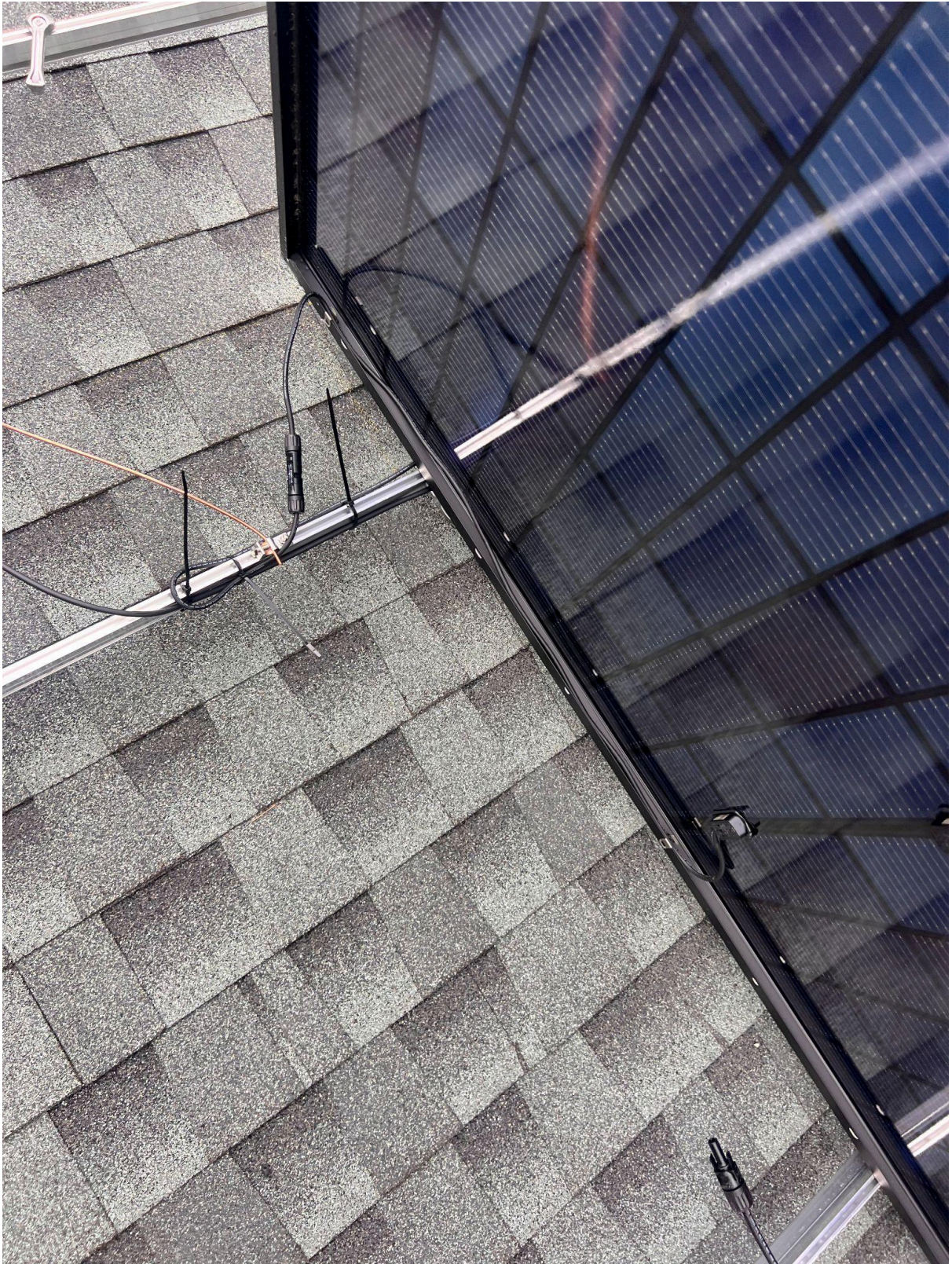
Operation Settings

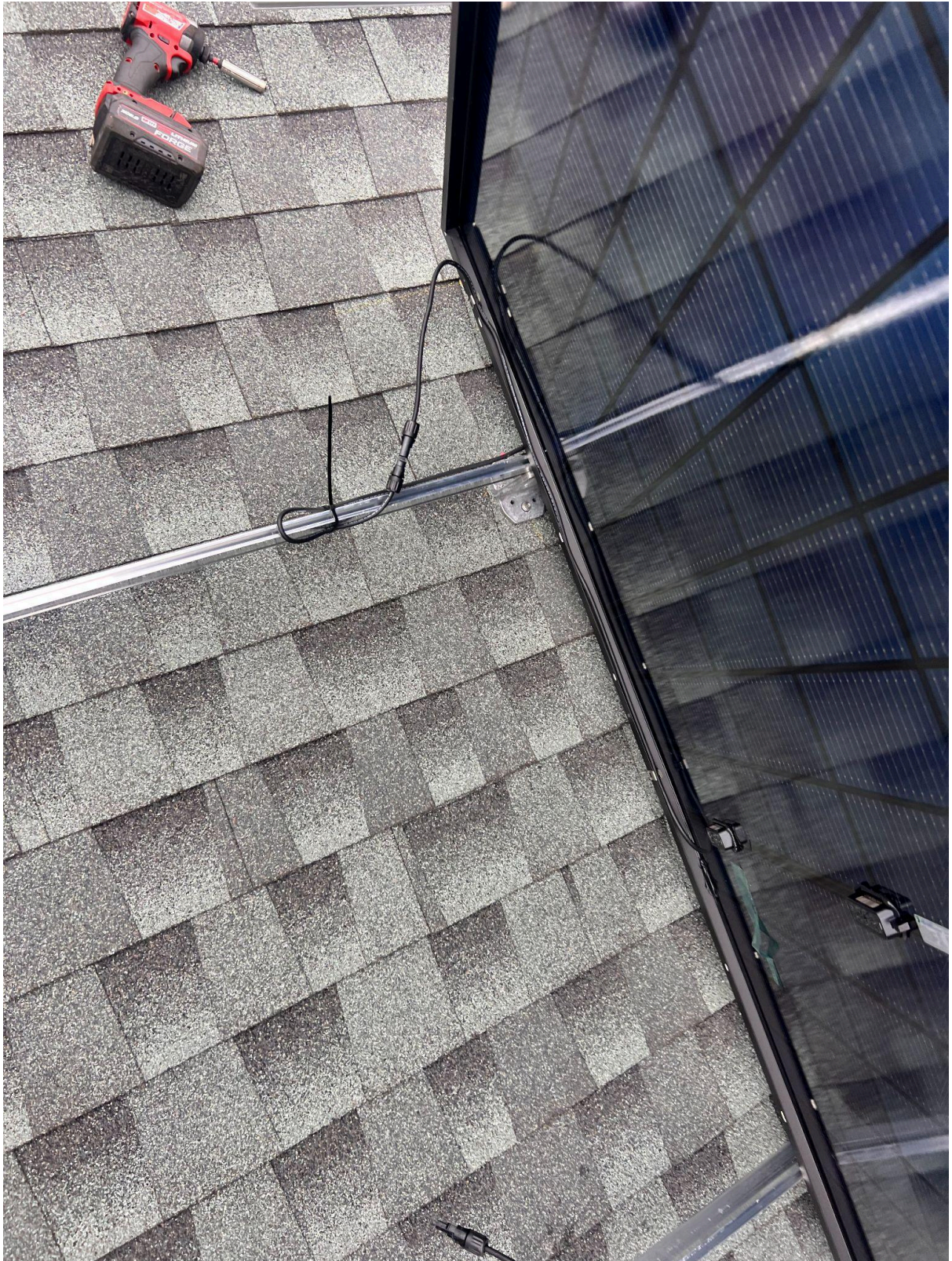
Software Version	24.28.202 cc45f87b
Mode	Time-based control
Backup Reserve	24%
Timezone	America/New_York
Network	Wi-Fi
Grid Code	60Hz_240V_s_SMC_IEEE15 47-2018_Category-III
Grid Charging Permission	Allowed
Grid Exporting Permission	Solar Only (Default)
Site Import Limit	None
Site Export Limit	None
Panel Maximum Current Limit	80A
Backup Behavior	Automatic
PCS controlled source(s) output-circuit current	0A - 48A















TESLA

TPN: 1624171-90-N

TSN: GF2250790006BD



CONFORMS TO
UL STD 414
UL STD 914
UL STD 2785



Intertek
5015303



CONTAINS FCC ID: TLZ-CU300

TYPE 3R RAINPROOF ENCLOSURE INTENDED
FOR USE WITH ANSI C12.2S METER SOCKET.
FREQUENCY: 60 Hz
MAX AMBIENT OPERATING TEMP AT 200A: 122°F

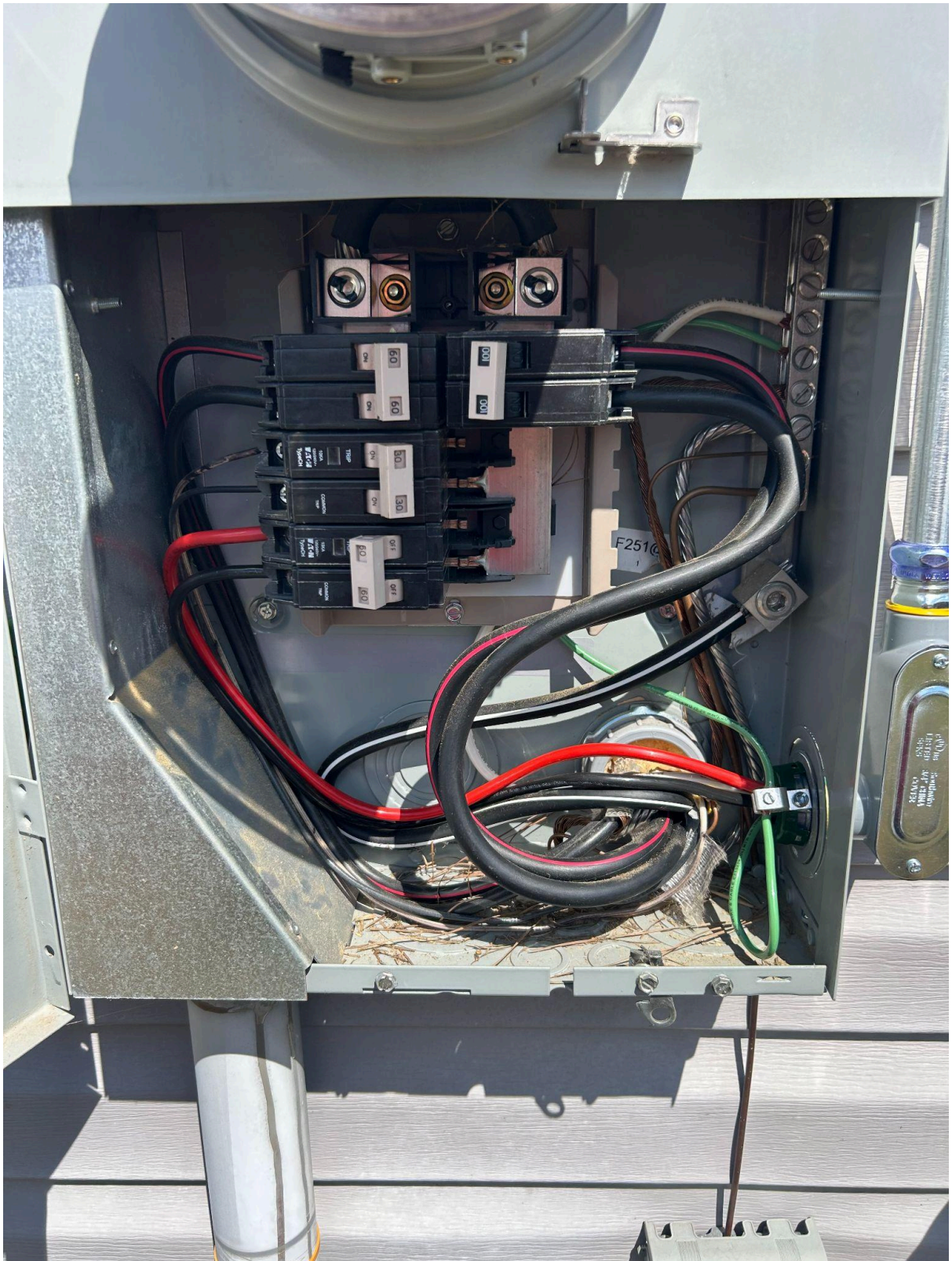
RATED TO 200A RMS CONTINUOUS/300V AC WHEN
USED IN A METER SOCKET RATED 200A CONTINUOUS

SHORT CIRCUIT CURRENT RATING
10,000 RMS SYMMETRICAL AMPERES, 300 V MAXIMUM.
WHEN USED IN CONJUNCTION WITH A CIRCUIT BREAKER
RATED NOT MORE THAN 200A, THIS BACKUP SWITCH IS
RATED FOR USE ON A CIRCUIT CAPABLE OF DELIVERING
NOT MORE THAN 22,000 RMS SYMMETRICAL AMPERES,
300V MAXIMUM, NOT IN EXCESS OF CIRCUIT BREAKER
INTERRUPTING RATING. WATTHOUR METER NOT
INCLUDED IN SHORT CIRCUIT CURRENT RATING.

PCS CONTROLLED CURRENT SETTING: _____ AMPS
THE MAXIMUM OUTPUT CURRENT FROM THIS
SYSTEM IS CONTROLLED ELECTRONICALLY. REFER
TO MANUFACTURER'S INSTRUCTIONS FOR MORE
INFORMATION.











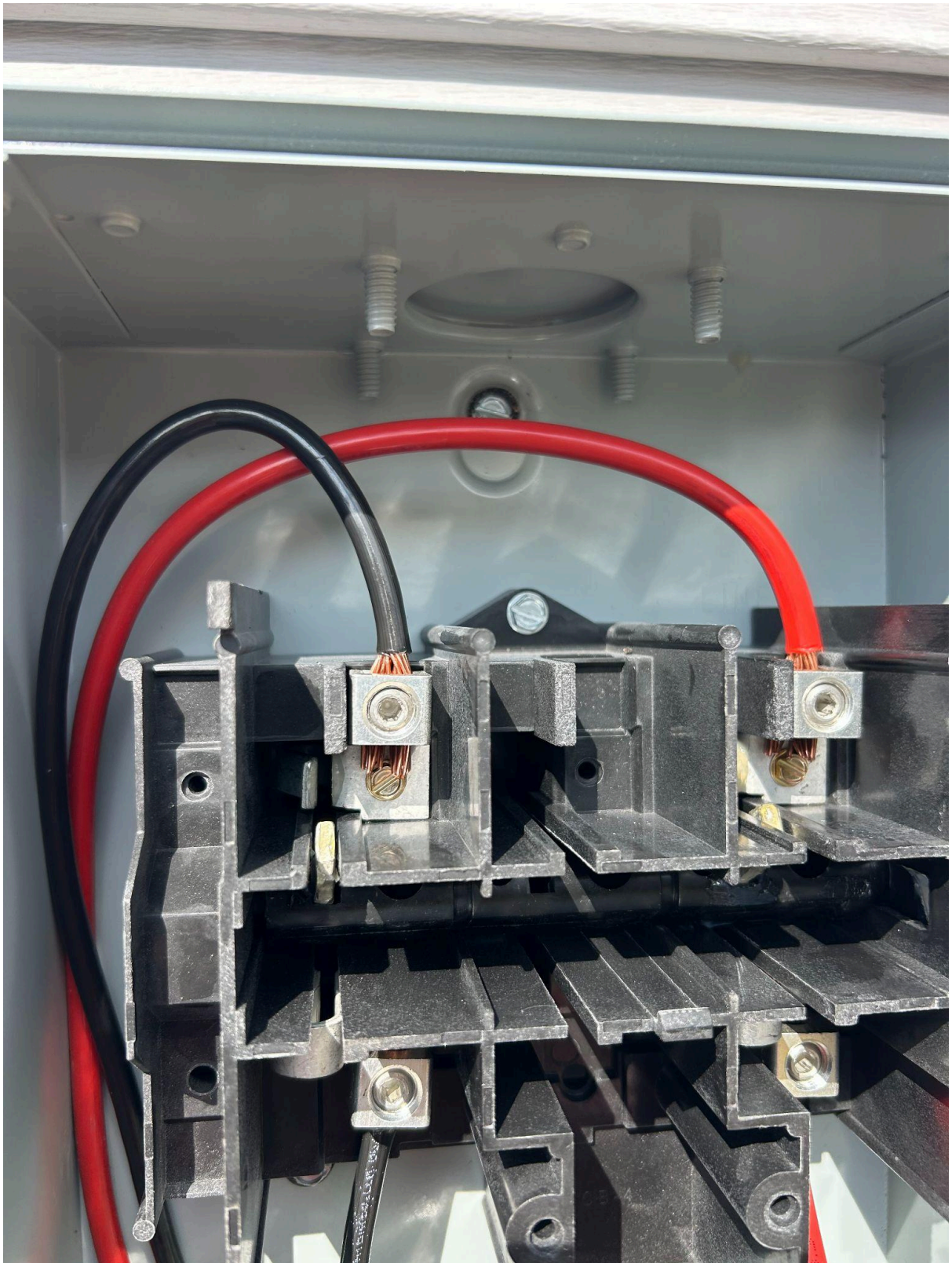


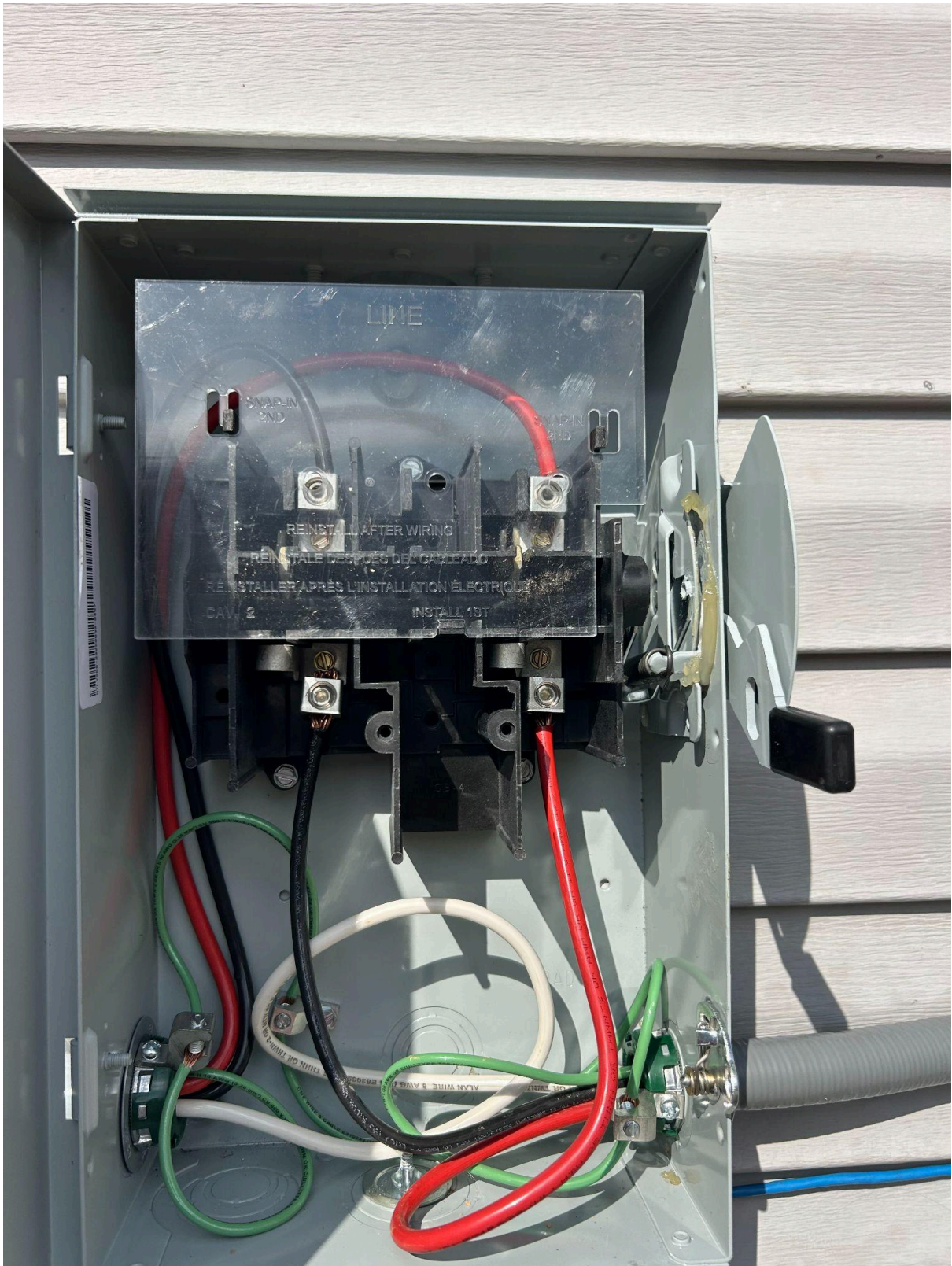




















MAX DC VOLTAGE OF PV SYSTEM: _____ V

**TESLA POWERWALL ENERGY
STORAGE SYSTEM GRID
SUPPORT UTILITY INTERACTIVE
& STANDALONE INVERTER**



TESLA PART NO.
1707000-11-M
SN: TG125136003CKZ

**BATTERY ENERGY STORAGE SYSTEM (BESS) &
PHOTOVOLTAIC (PV) POWER CONVERSION EQUIPMENT**

NOMINAL BATTERY ENERGY	13.5 kWh	BESS INVERTER TOPOLOGY	ISOLATED
BATTERY TYPE	LI-ION	OPERATING TEMPERATURE RANGE	-20°C TO 50°C
PROTECTIVE CLASS	CLASS 1	DERATED TEMPERATURE RANGE	40°C TO 50°C
ENCLOSURE TYPE	TYPE 3R	MASS	130 kg
PV INVERTER TOPOLOGY	NON-ISOLATED		

BATTERY ENERGY STORAGE SYSTEM (BESS) & PHOTOVOLTAIC (PV) SPECIFICATIONS

NOMINAL GRID VOLTAGE INPUT & OUTPUT	240 V (AC)	BESS MAX CONTINUOUS INPUT CURRENT, POWER	
GRID VOLTAGE RANGE	211 V-264 V (AC)	POWERWALL 3 ONLY	20.8 A (AC) (5 kVA)
PHASE	2W-N-P-E	POWERWALL 3 + EXPANSION	33.3 A (AC) (8 kVA)
FREQUENCY	60 Hz	POWER FACTOR	-1 TO +1
MAX SHORT-CIRCUIT CURRENT RATING	10 kA (AC)	PV OPERATING DC INPUT VOLTAGE RANGE	60 - 550 V (DC)
MAX CONTINUOUS OUTPUT CURRENT (POWER AT 240V)	☐ 24 A (AC) (5.8 kVA) ☐ 32 A (AC) (7.8 kVA) ☐ 42 A (AC) (10 kVA) ☐ 48 A (AC) (11.5 kVA)	PV OPERATING DC MPPT VOLTAGE RANGE	80 - 480 V (DC)
MAX CONTINUOUS OUTPUT CURRENT OFF-GRID (PV ONLY, -20°C TO 25°C)	☐ 64 A (AC) (15.4 kVA)	PV MAX SYSTEM VOLTAGE	600 V (DC)
		PV MAX INPUT CURRENT	15 A (DC)
		PV DC ARC FAULT PROTECTION	TYPE 1



CONFORMS TO UL STD 9540, UL STD 1741, UL STD 1973, UL STD 1699B,
CSA C22.2 No. 107.1, CSA 22.2 No. 330, CSA 22.2 No. 9.292

CONTAINS FCC ID: 2AEM-WL18DBMOO, 3482020B095M2

CONTAINS IC: 20098-WL18DBMOO, 10224A-2020B095M2

GRID SUPPORT INTERACTIVE INVERTER - CSA C22.3 NO. 9 - SUPPLEMENTAL

PHOTOVOLTAIC DC ARC FAULT DETECTOR PROTECTION

SUITABLE FOR SERIES AND PARALLEL ARCING FAULT PROTECTION

THE MAXIMUM OPERATING CURRENT OF THIS SYSTEM MAY BE CONTROLLED ELECTRONICALLY. REFER TO THE MANUFACTURER'S INSTRUCTIONS FOR MORE INFORMATION.

PHOTOVOLTAIC (PV) RAPID SHUTDOWN SYSTEM EQUIPMENT RS2

ONLY THE INDICATED TERMINALS OF THIS PRODUCT COMPLY WITH PV RAPID SHUTDOWN REQUIREMENTS FOR CONTROLLED CONDUCTORS OUTSIDE THE ARRAY PERMISSIBLE CONTROLLED CONDUCTOR CONNECTION. PORT REFER TO INSTRUCTIONS FOR CONDITIONS OF USE.

CAUTION: RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS ARE TERMINATED INSIDE THIS EQUIPMENT. EACH CIRCUIT MUST BE INDIVIDUALLY DISCONNECTED BEFORE SERVICING. WHEN THE PV ARRAY IS EXPOSED TO LIGHT IT SUPPLIES A DC VOLTAGE TO THIS EQUIPMENT.

WARNING: ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PV SYSTEM ARE NORMALLY UNGROUNDING BUT WILL BECOME INTERMITTENTLY GROUNDED WITHOUT INDICATION WHEN THE INVERTER MEASURES THE PV ARRAY ISOLATION ENERGY STORED IN A CAPACITOR. DO NOT REMOVE COVER UNTIL 5 MINUTES AFTER DISCONNECTING THE EQUIPMENT. POWER FED FROM MORE THAN ONE SOURCE. DISCONNECT ALL SOURCES OF SUPPLY BEFORE SERVICING.

ATTENTION: DES SOURCES D'ALIMENTATION C.A. ET C.C. SONT BRANCHÉES DANS CET ÉQUIPEMENT AVANT L'ENTRETIEN. CHAQUE CIRCUIT DOIT ÊTRE DÉCONNECTÉ LORSQUE LE CHAMP DE MODULES PHOTOVOLTAIQUES EST EXPOSÉ À DE LA LUMIÈRE. IL FOURNIT UNE TENSION CONTINUE À CET ÉQUIPEMENT.

AVERTISSEMENT: RISQUES D'ÉLECTROCUTION. NE PAS RETIRER LE COUVERCLE ÉLECTRIQUE. LES CONDUCTEURS DE TENSION CONTINUE DE CE SYSTÈME PHOTOVOLTAIQUE SONT NORMALEMENT NON MIS À LA TERRE, MAIS ILS DEVIENDRAIENT PAR MOMENT MIS À LA TERRE. SANS AVERTISSEMENT, LORSQUE L'ON OUVRE LE COUVERCLE, L'ISOLATION DU CHAMP DE MODULES PHOTOVOLTAIQUES, ÉNERGIE STOCKÉE DANS LE CONDENSATEUR, ALIMENTATION PROVENANT DE PLUSIEURS SOURCES, DÉCONNECTEZ DE TOUTES LES SOURCES DE DURANT AVANT DE PROCÉDER À L'ENTRETIEN.

TESLA
COUNTRY OF ORIGIN: US

TESLA, INC.
350 MILAN DR.
SPARKS, NV 89437, USA
TEL: 1(877)768-3752
WWW.TESLA.COM



SSID:
TeslaPW_DBUAHT
Password:
XCZJFKAWA

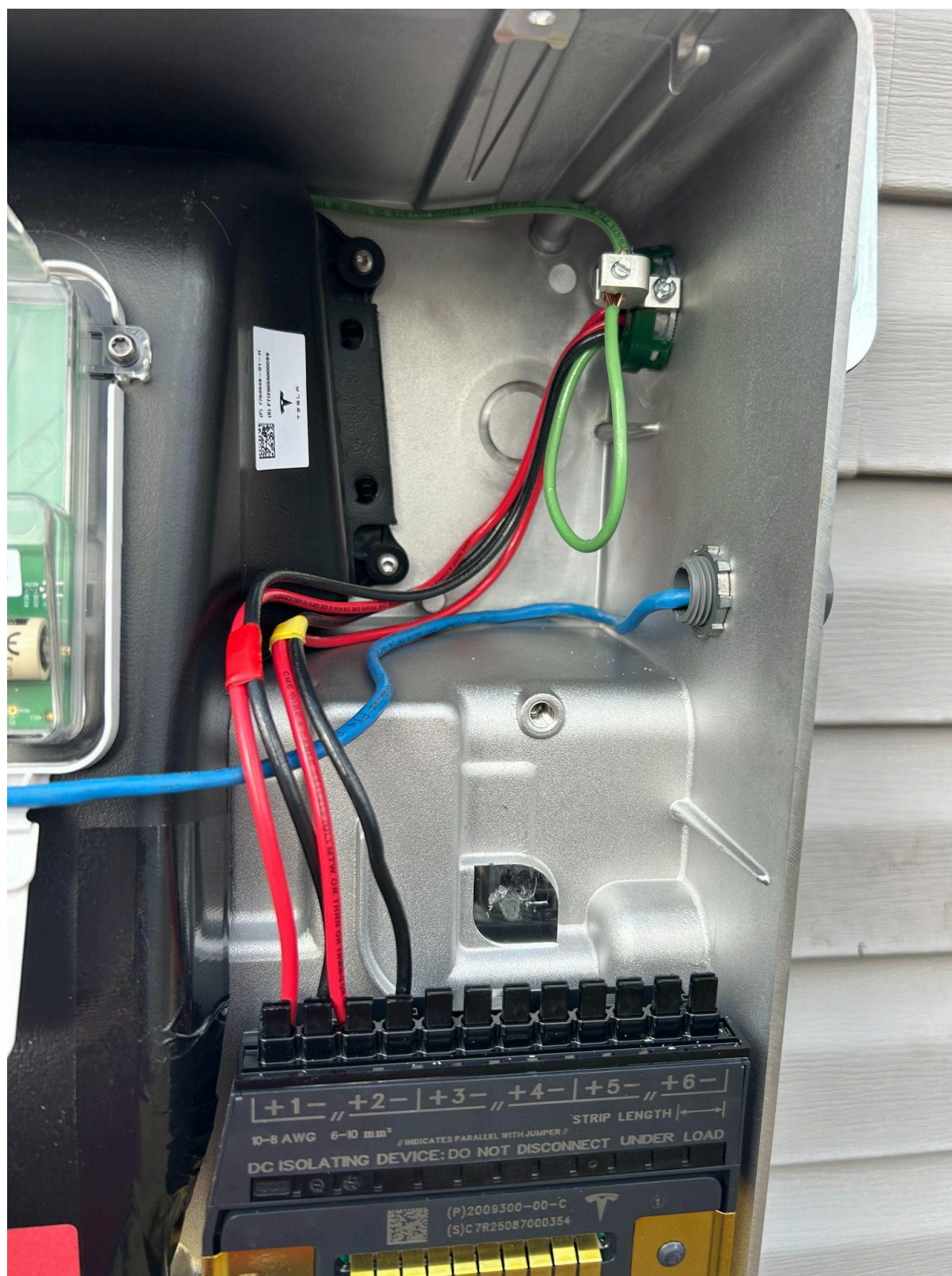
FTI250550000S9



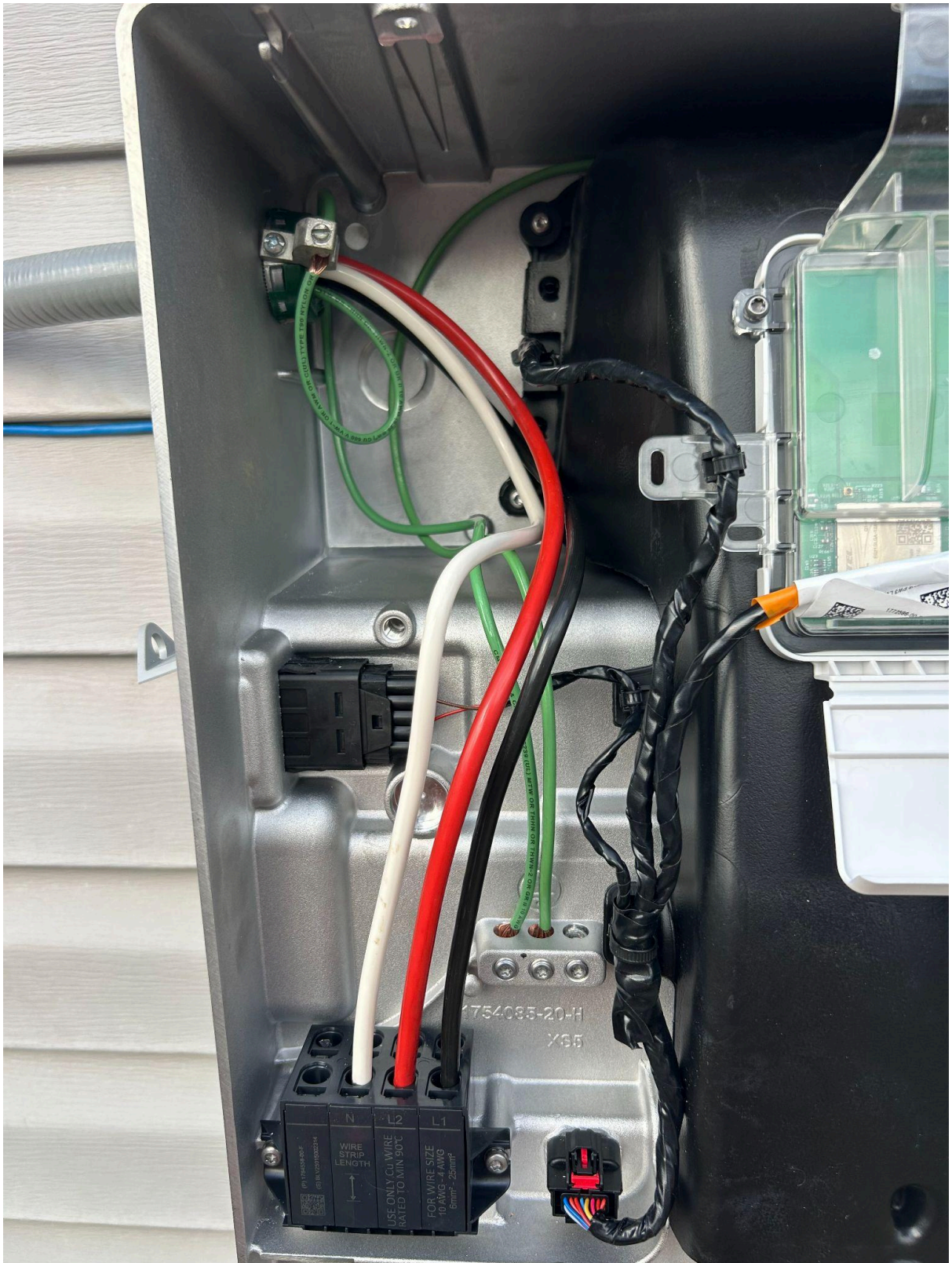
WARNING

TURN OFF POWER SWITCH BEFORE WIRING.

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





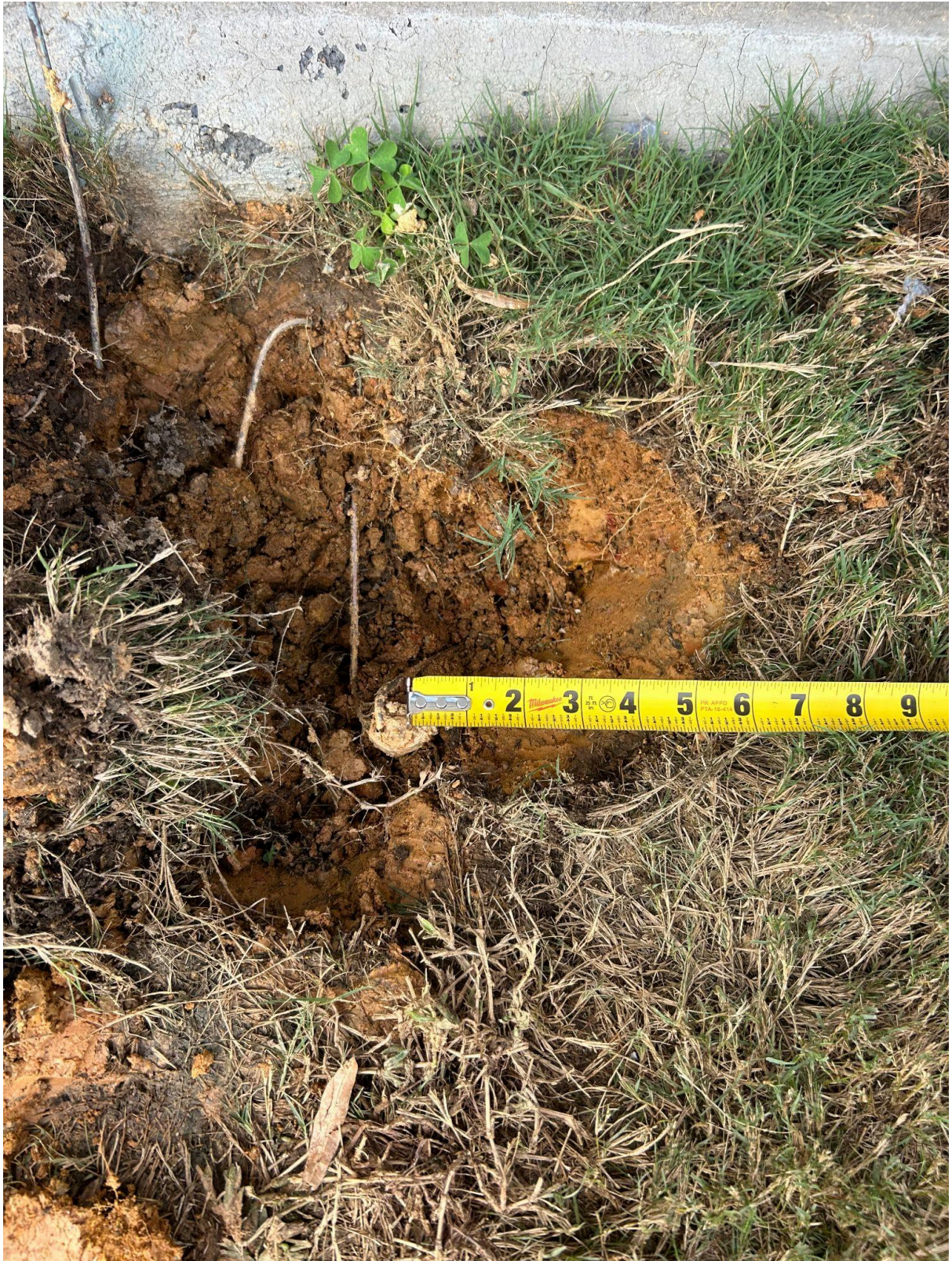












WARNING
OTHER SOURCES
UTILITY GRID, BATTERY
ELECTRIC SYSTEM

PHOTOVOLTAIC
SYSTEM kWh METE

SERVICE ONLY
MANUAL OVERRIDE NOT TO BE
USED UNLESS DIRECTED BY TESLA

ATTIC
FURNACE
A.C.

WARNING
SOLAR ELECTRIC
CIRCUIT BREAKER
IS BACKFED



DO NOT RELOCATE THIS
OVERCURRENT DEVICE
PHOTOVOLTAIC
SOLAR BREAKER

SUB-PANEL
GARAGE

⚡ DANGER
HAZARDOUS VOLTAGE. WILL CAUSE
SEVERE INJURY OR DEATH.
Turn OFF power supplying this equipment before working.
**TENSION DANGEREUSE. PEUT CAUSER
DES BLESSURES GRAVES OU LA MORT.**
Coupez l'alimentation électrique de cet équipement avant
d'effectuer des travaux.
⚡ PELIGRO
VOLTAJE PELIGROSO. CAUSA HERIDAS
SEVERAS O MUERTE.
Desconecte el suministro de energía antes de trabajar en este equipo.







EATON®

General Duty Safety Switch
Interrupteur de sécurité à usage général
Interruptor de seguridad de servicio general
60 A, 240 V~, 60 Hz
Complete ratings inside
Valeurs nominales complètes à l'intérieur
Información completa de capacidades en el interior
Further instructions inside
Autres instructions à l'intérieur
Instrucciones adicionales en el interior
Made in U.S.A. / Fabriqué aux E.-U. / Hecho en E.U.A.

⚠ DANGER
HAZARDOUS VOLTAGE WILL CAUSE
SEVERE INJURY OR DEATH.
• Never operate switch with load open.
• Turn OFF power ahead of switch before doing any work.
• Always lockout and tagout before working.
**TENSION DANGEREUSE. PEUT CAUSER
DES BLESSURES GRAVES OU LA MORT.**
• Ne jamais manipuler l'interrupteur lorsque le circuit est
ouvert.
• Coupez l'alimentation en amont de l'interrupteur avant
toute intervention. Remarquez les câbles. Fermez le
circuit avant de commencer les travaux.
⚠ PELIGRO
VOLTAGE PELIGROSO. PUEDE CAUSAR
HERIDAS SEVERAS O LA MUERTE.
• Nunca opere el interruptor con el circuito abierto.
• Desconecte la alimentación del interruptor antes de
trabajar dentro del mismo. Etiquete todos los cables.
Cierre la corriente antes de empezar el mantenimiento.

30-43080

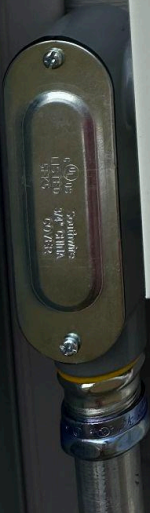


ON
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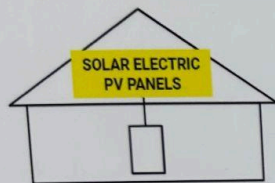
OFF
O

⚠ WARNING
ELECTRIC SHOCK HAZARD
TERMINALS ON THE LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION
pvlabeta.com 08-215

AC DISCONNECT
PHOTOVOLTAIC SYSTEM
POWER SOURCE
RATED AC
OUTPUT CURRENT **48** AMPS
NOMINAL OPERATING
AC VOLTAGE **240** VOLTS
pvlabeta.com 15-008



**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 ARRAY

AC DISCONNECT

**PHOTOVOLTAIC SYSTEM
POWER SOURCE**

RATED AC
OUTPUT CURRENT **48** AMPS
NOMINAL OPERATING
AC VOLTAGE **240** VOLTS



WARNING

ELECTRIC SHOCK HAZARD

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

**DIRECT CURRENT
PHOTOVOLTAIC
POWER SOURCE**

MAXIMUM VOLTAGE **550** VDC
MAX CIRCUIT CURRENT **24** AMPS





















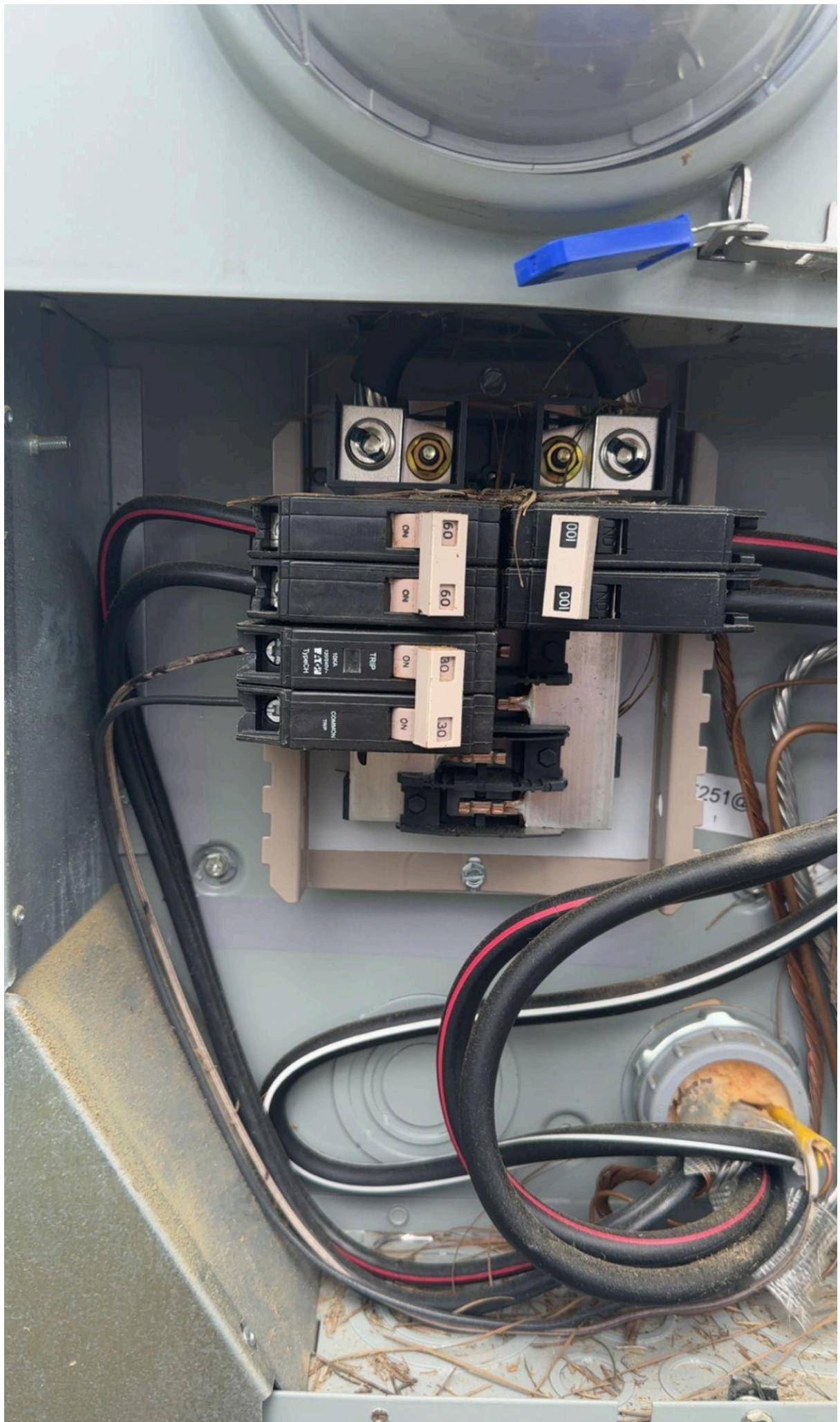






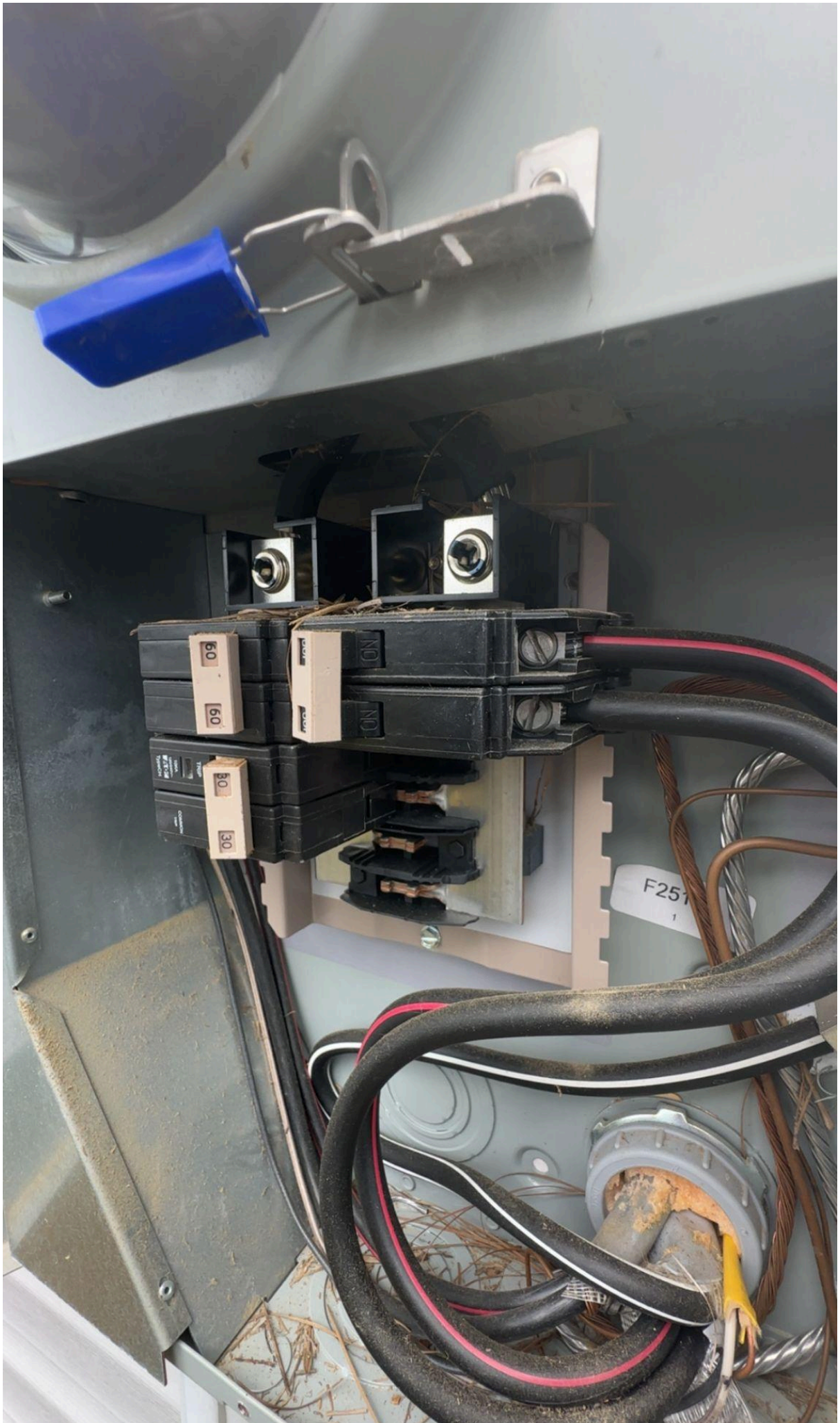


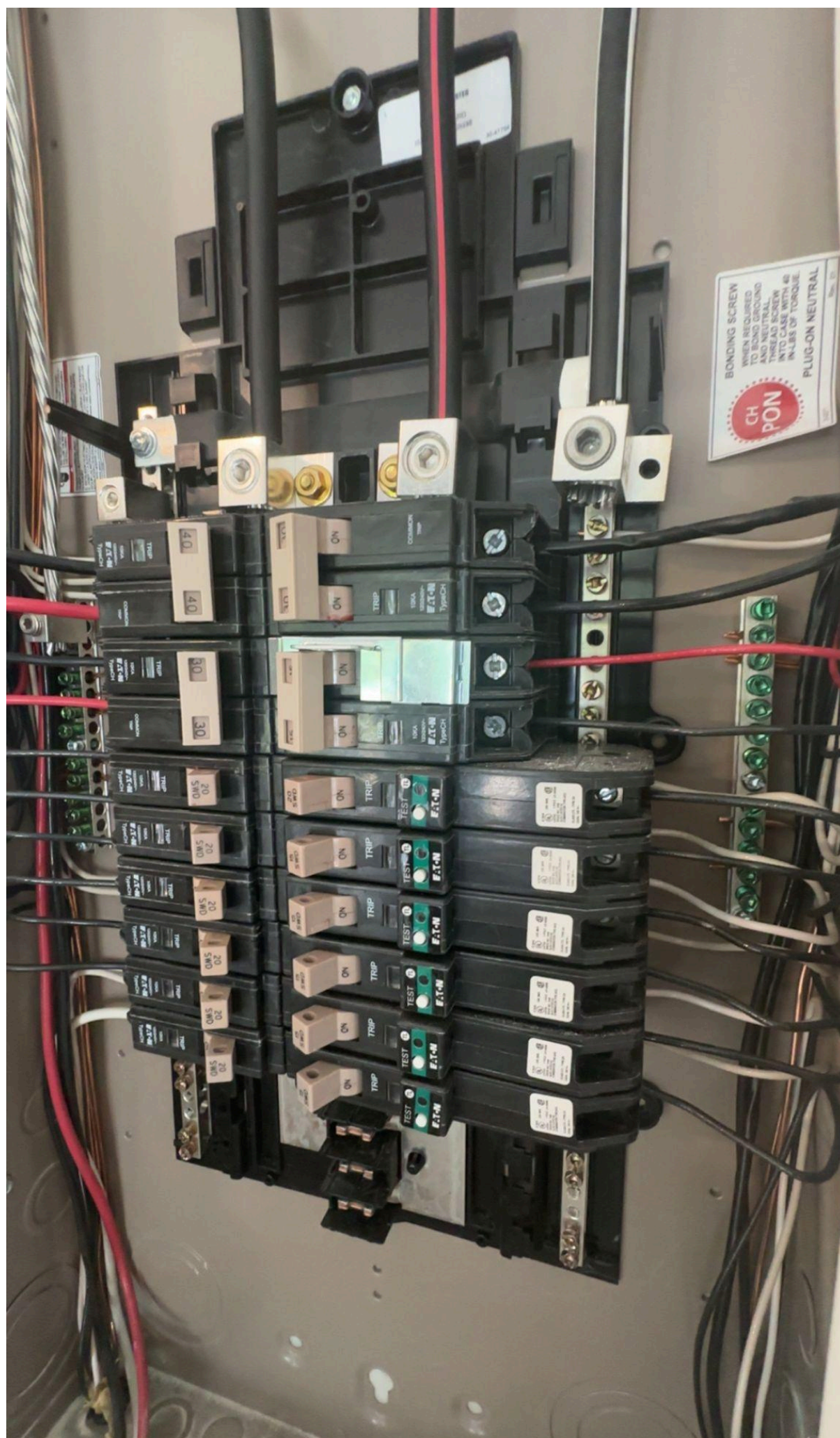


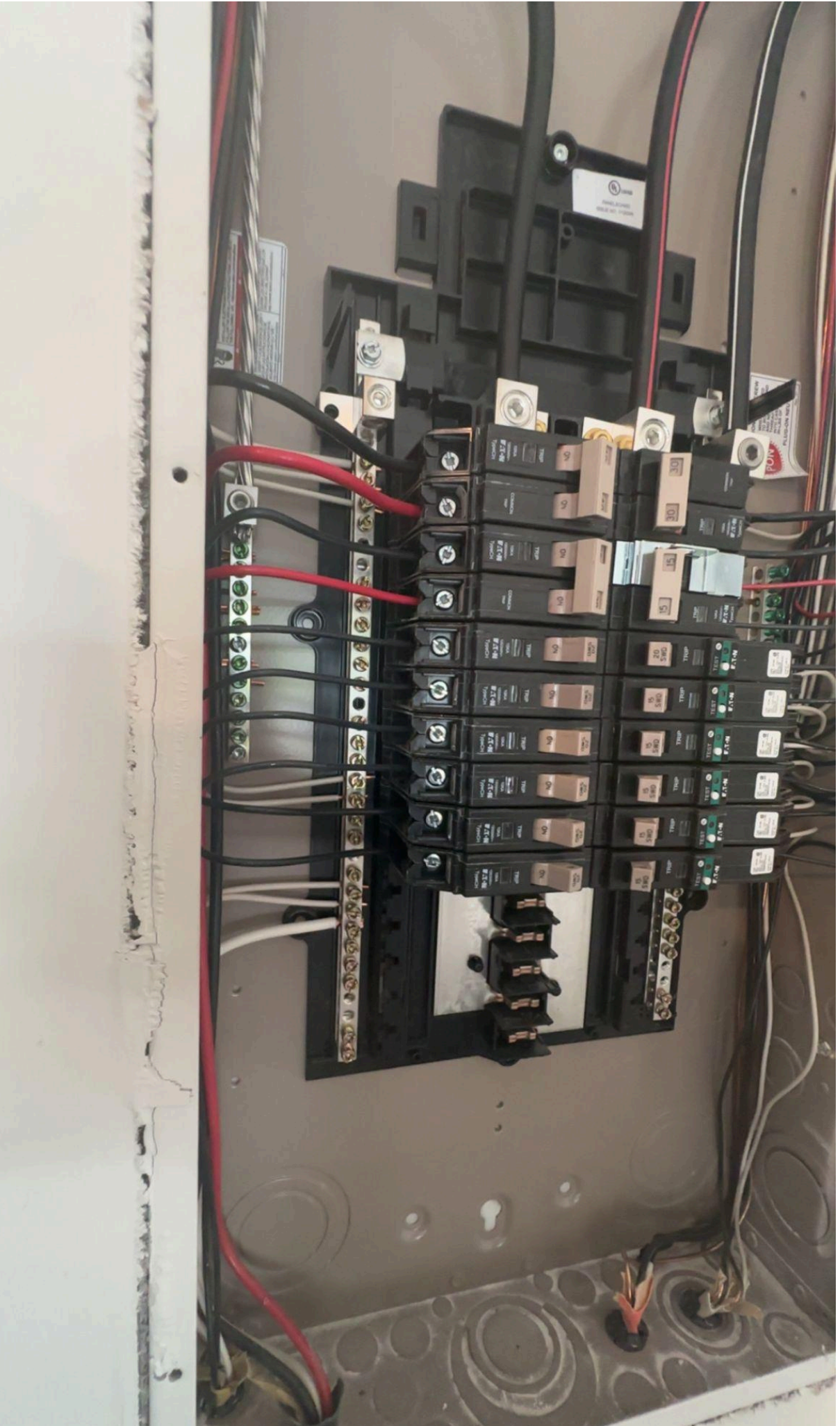


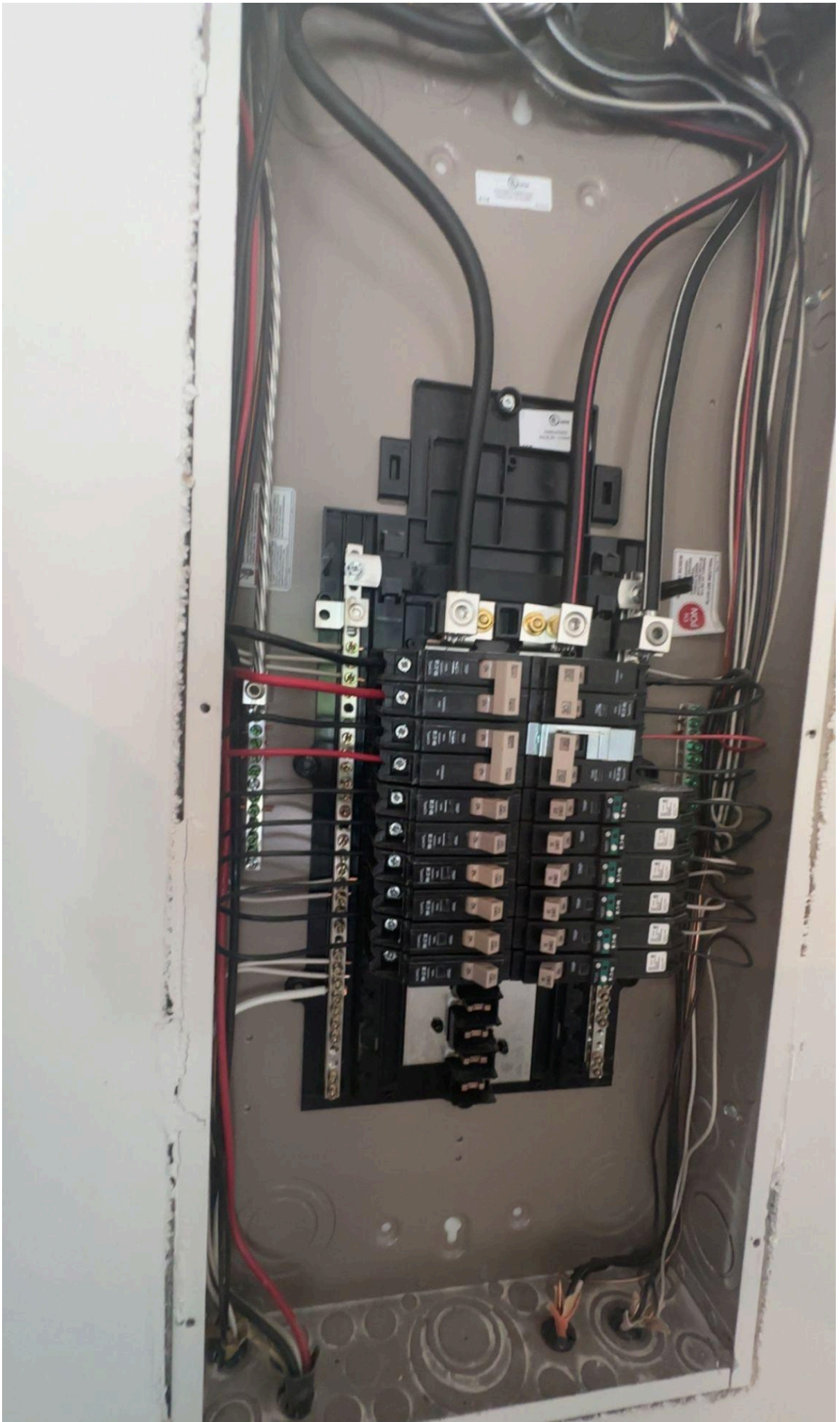


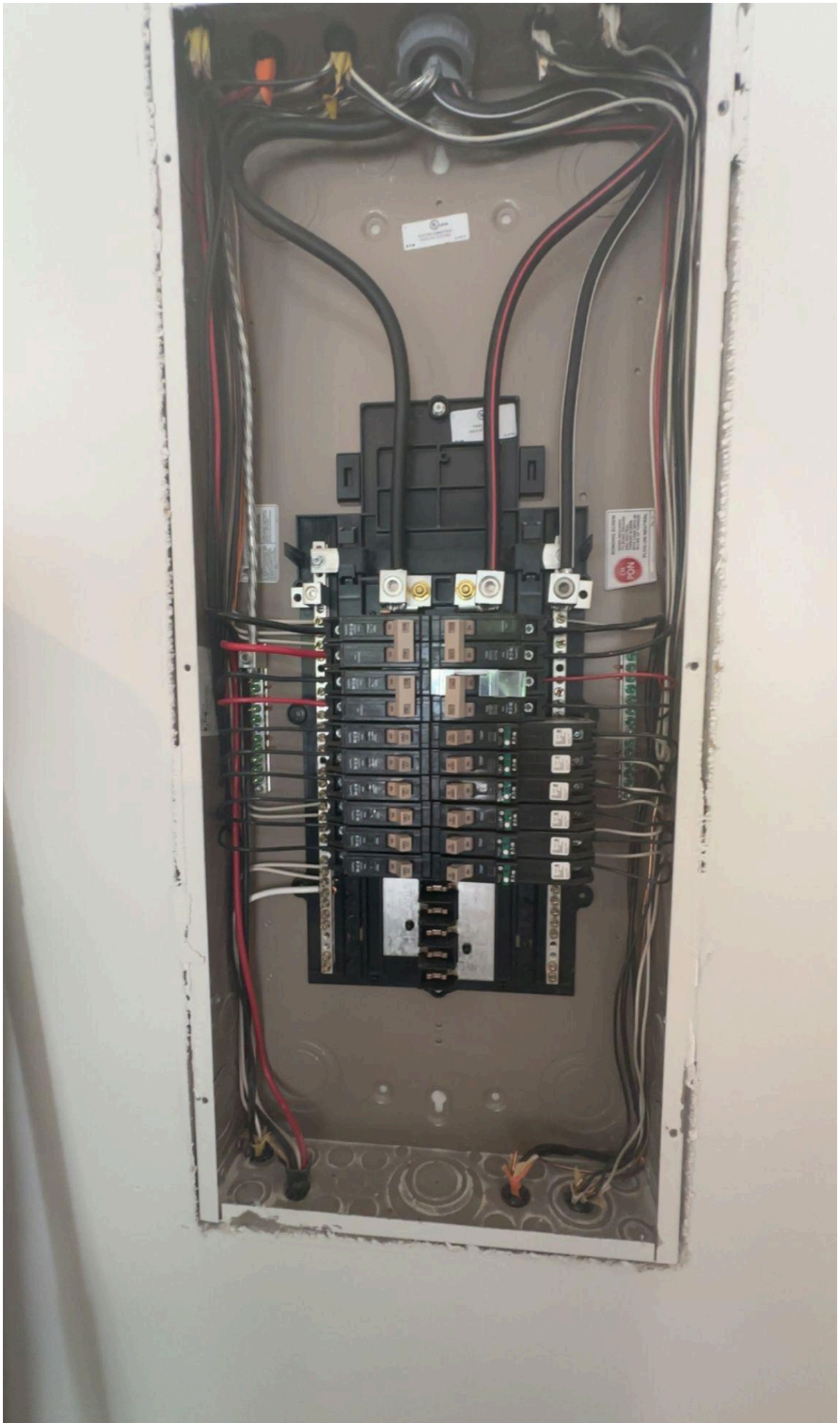




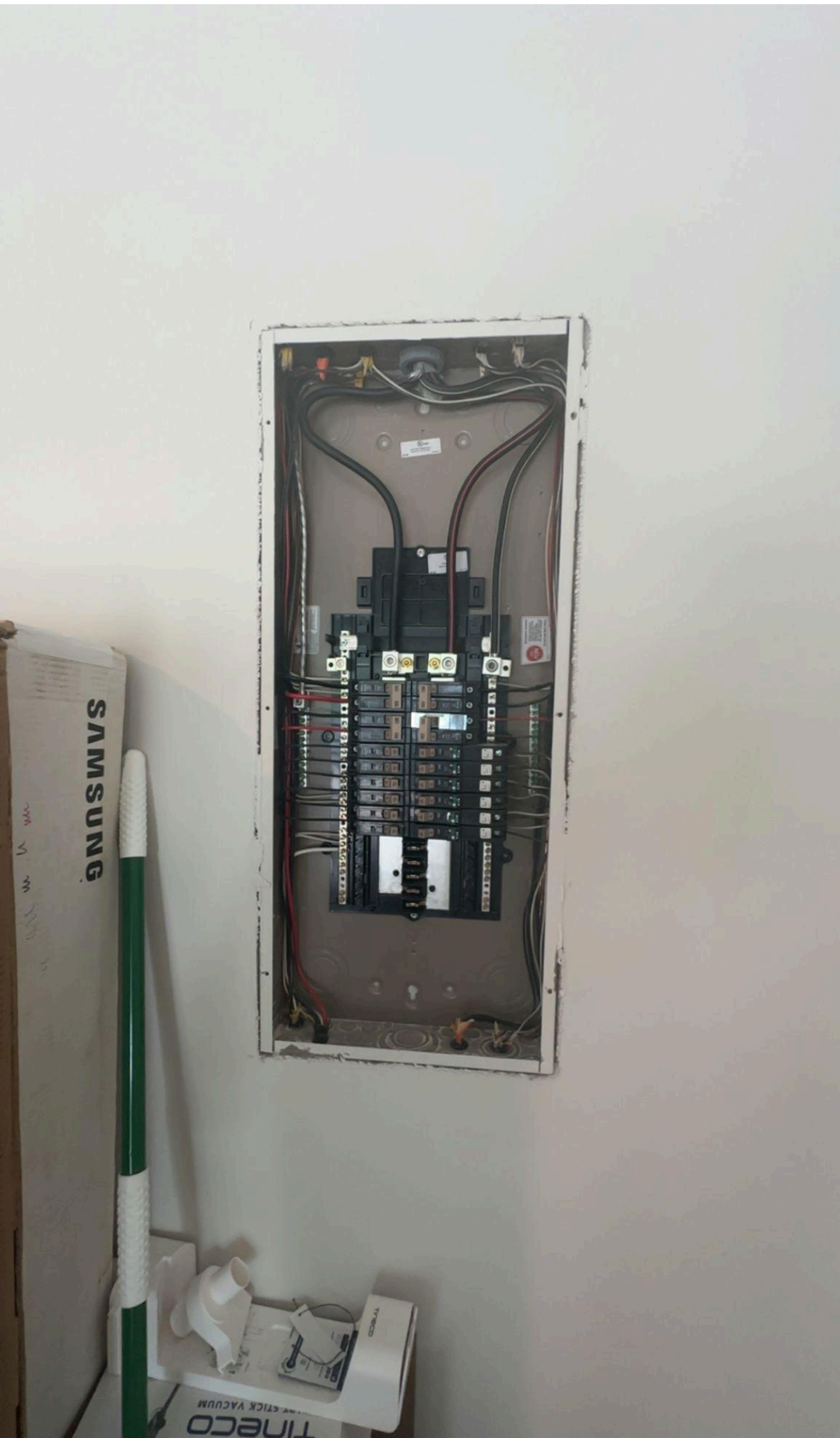
















CENTRON®

0002E35A1B
FCC ID: 3C9AK67 IC: 8445-ANI7 MODEL: AM7

red

CL200 240V 3W TYPE C2M 30TA 1.0Kh

ZZZ 7D9657 H67



DUKE ENERGY PROGRESS

339 604 232

CA 0.5
FM2S
60Hz

F120529

OpenWay
by Hdrn

6 / 22



ATTIC
FURNACE
A.C.



SUB-PANEL
GARAGE













⚠ DANGER
HAZARDOUS VOLTAGE WILL
CAUSE SEVERE INJURY OR DEATH.
Do not touch exposed parts.
Do not touch the power cord.
Do not touch the power switch.
Do not touch the power button.
Do not touch the power cord.
Do not touch the power switch.
Do not touch the power button.

⚠ PELIGRO
TENSION DANGEROUS. PUEDE
CAUSAR LESIONES GRAVES O LA
MUERTE. No tocar las partes
expuestas. No tocar el cable
de alimentación. No tocar el
interruptor de encendido. No
tocar el botón de encendido.

1 RANGE
3 RANGE
5 DRYER
7 DRYER
9 WASHER
11 GFI
13 BATH GFI AND REC
15 GARAGE GFI DOOR-OPENER
17 FRIG. KITCHEN GFI-ISLAND REC
19 MICROWAVE KITCHEN GFI REC
21
23
25
27
29



2 H/W
4 H/W
6 DISHWAS.
8 DISPOS.
10 NOOK REC
12 SLD. MASTER BED BATHS LTS. REC
14 STUDY. HALLS LAUNDRY BATHS LTS REC
16 RED 2-3 LIGHTS REC
18 GARAGE. NOOK BACK KITCHEN LTS
20 FAMILY ROOM POW. DOOR R HALL FRONT STAIRS - LTS. REC
22
24
26
28









