





SIEMENS
Manufacturing Number: 1000 0000 0000 0000
Type: 1000 0000 0000 0000
Voltage: 230V AC
Frequency: 50/60 Hz
Power: 1000 VA
Dimensions: 100x100x100 mm
Weight: 1.0 kg
Installation: See manual
Warranty: 3 years
Made in Germany

WARNING
Electrical hazard
High voltage
Do not touch
Disconnect power before work

Diagram

Terminal	Wire Color	Connection
1	Blue	Neutral
2	Black	Phase
3	Black	Phase
4	Black	Phase
5	Black	Phase
6	Black	Phase
7	Black	Phase
8	Black	Phase
9	Black	Phase
10	Black	Phase
11	Black	Phase
12	Black	Phase
13	Black	Phase
14	Black	Phase
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40	Black	Phase
41	Black	Phase
42	Black	Phase
43	Black	Phase
44	Black	Phase
45	Black	Phase
46	Black	Phase
47	Black	Phase
48	Black	Phase
49	Black	Phase
50	Black	Phase





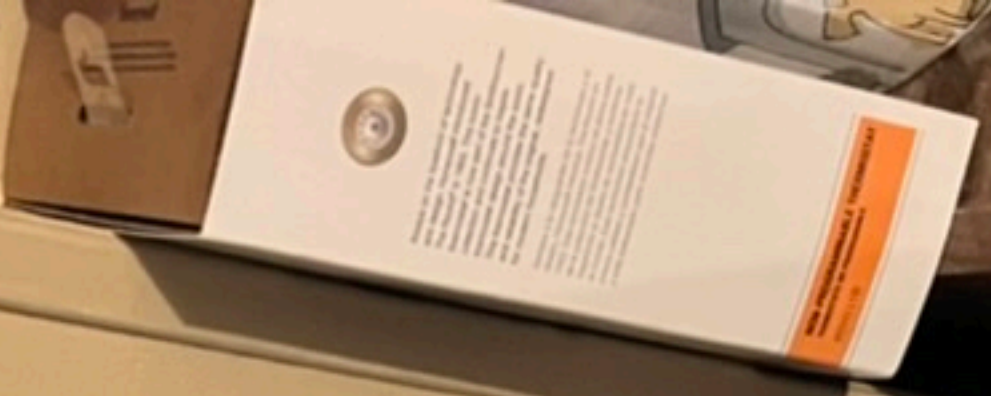


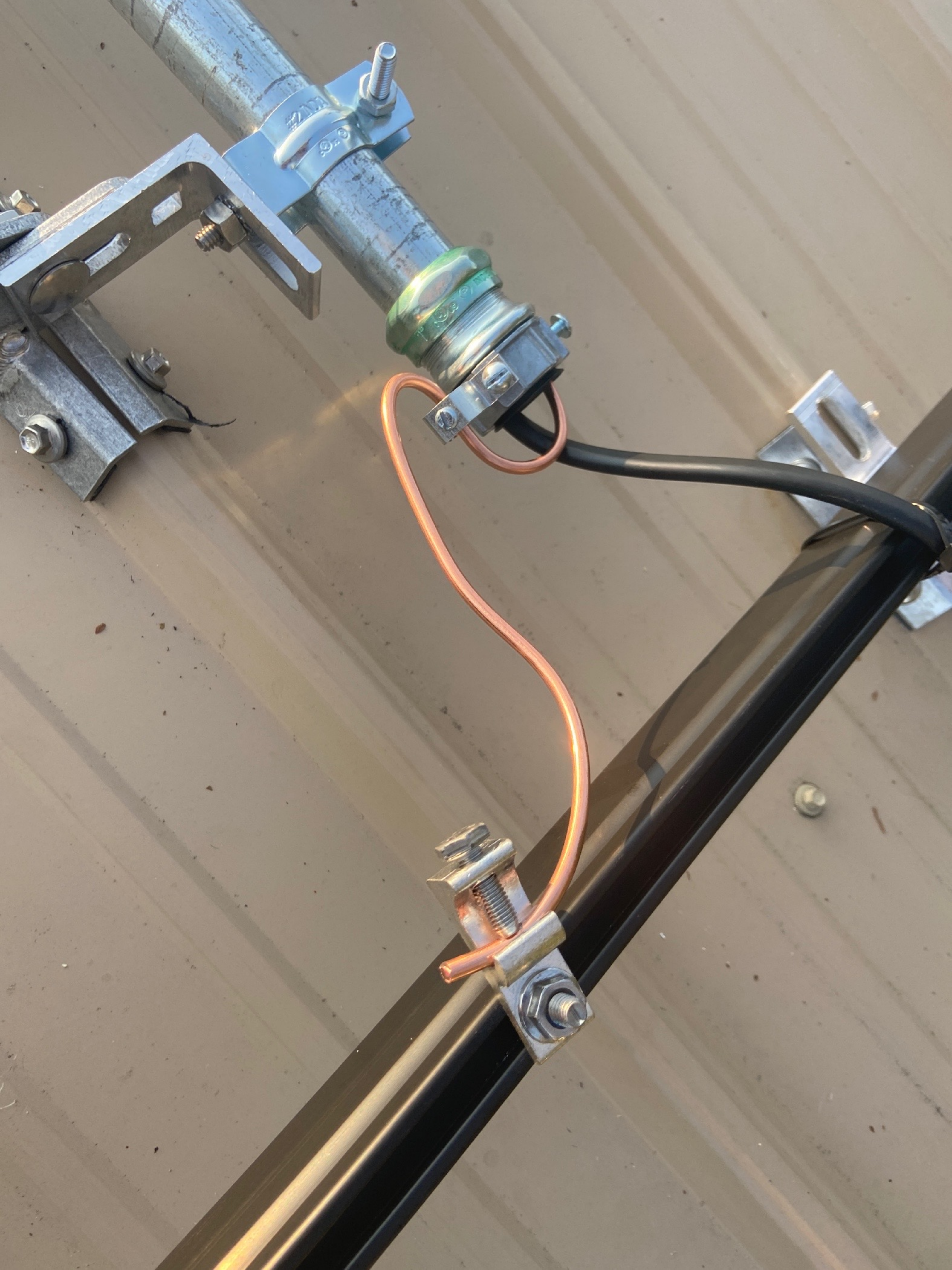






1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100














MISSION SOLAR ENERGY  Serial No. **M220906-B0508**



Model Number MSE348SX5T

Rated Maximum Power	[W]	348 (-0/+3%)
Open - Circuit Voltage	[V]	41.0
Voltage at Pmax	[V]	33.4
Short - Circuit Current	[A]	10.92
Current at Pmax	[A]	10.34
Max. System Voltage	[V]	1000
Max. Series overcurrent protective device (where required) fuse rating	[A]	20
Standard test condition		AM=1.5 E=1000W/m ² Tc=25°C






For field connections, use Cu only, 12AWG (US, CANADA), 4mm² (EU, Asia) wires insulated for a minimum of 90°C, rated for wet conditions and resistant to ultra violet radiation (where exposed). See installation manual for PV connector details and compatibility. Avertissement Risque de choc électrique. Ce module produit des tensions élevées dans la lumière du soleil. Risque électrique peut choquer, brûler ou de provoquer la mort. Ne pas toucher la borne.

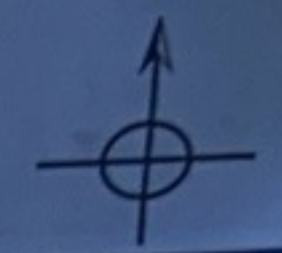
Fire Rating: Type I
Class of Equipment: Class II
Design Load: Minimum 3600 Pa front and minimum 1600 Pa back load

Warning
PV modules generate voltage even with very weak light. Do not open the junction box. Les modules PV produisent tension même en basse lumière.
Ne pas ouvrir la boîte de jonction.

  **ASSEMBLED IN THE USA**

Address:
8303 S. New Braunfels Ave.
San Antonio, TX 78215
ASSEMBLED IN THE USA



Panel Group/Grupo de los paneles:

Azimuth/Azimet:

Tilt/Inclinación:

Sheet/Hoja ____ of/de ____

Customer/Cliente:

	1	2	3	4	5	6	7	8	9
A						20220072779 883-01324	20220077546 883-01324		
B						20220081036 883-01324	20220077510 883-01324		
C						20220089986 883-01324	20220072780 883-01324		
D						20220089082 883-01324	20220080474 883-01324	20220074727 883-01324	
E							20220077553 883-01324	20220076009 883-01324	
F						20220074901 883-01324	20220085127 883-01324	20220074913 883-01324	20220078431 883-01324
G	20220072325 883-01324	20220074706 883-01324		20220081246 883-01324	20220085649 883-01324	20220077574 883-01324	20220081419 883-01324	20220085701 883-01324	20220080975 883-01324
H	20220077488 883-01324	20220074706 883-01324		20220089146 883-01324	20220075833 883-01324	20220081313 883-01324	20220077973 883-01324	20220080987 883-01324	
J	20220078378 883-01324	20220083137 883-01324		20220080198 883-01324	20220081035 883-01324	20220079521 883-01324	20220073429 883-01324	20220074771 883-01324	20220089042 883-01324
K	20220078227 883-01324	20220080009 883-01324		20220077482 883-01324	20220076444 883-01324	20220076637 883-01324	20220083484 883-01324		
L	20220072249 883-01324	20220072284 883-01324		20220077482 883-01324	20220074998 883-01324	20220072841 883-01324	20220084214 883-01324		
M	20220090097 883-01324	20220076632 883-01324		20220088970 883-01324	20220074998 883-01324	20220089538 883-01324	20220074711 883-01324		

To Sheet / A la hoja de:

To Sheet / A la hoja de:

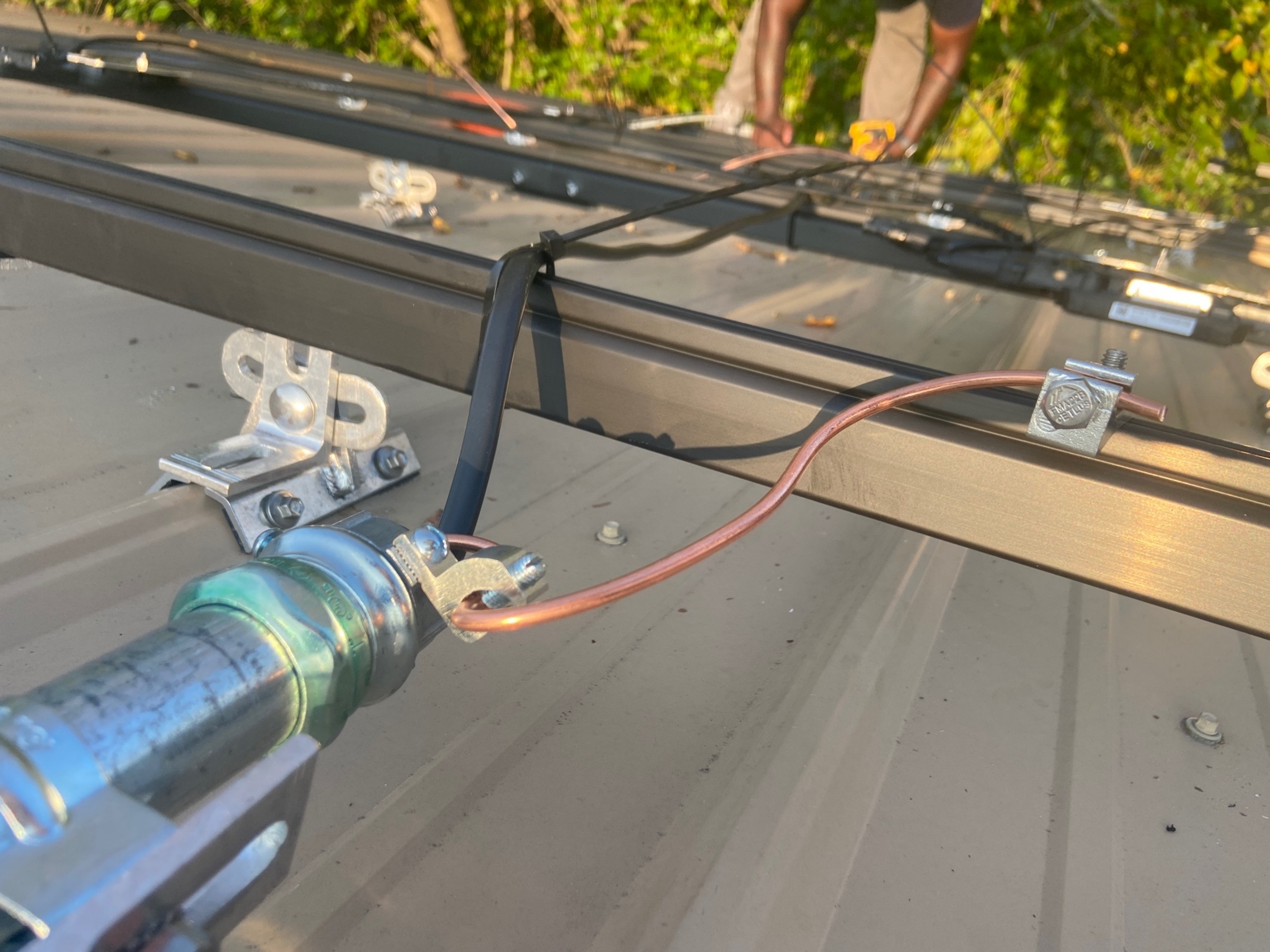
Scan completed map and upload it to Enphase. Click "Add a New System" at <https://enlighten.enphaseenergy.com>. Use this map to build the virtual array in Enphase Installer Platform's Array Builder.

Escanee el mapa completo y cárguelo en Enphase. Haga clic en "Añadir nuevo sistema" en <https://enlighten.enphaseenergy.com>. Utilice este mapa para crear el conjunto de paneles virtual en el Creador de conjuntos de paneles de Enphase Installer Platform.

To Sheet / A la hoja de:

Gateway Serial Number Label / Número de serie de Gateway

Enphase Customer Support: enphase.com/en-us/support/contact



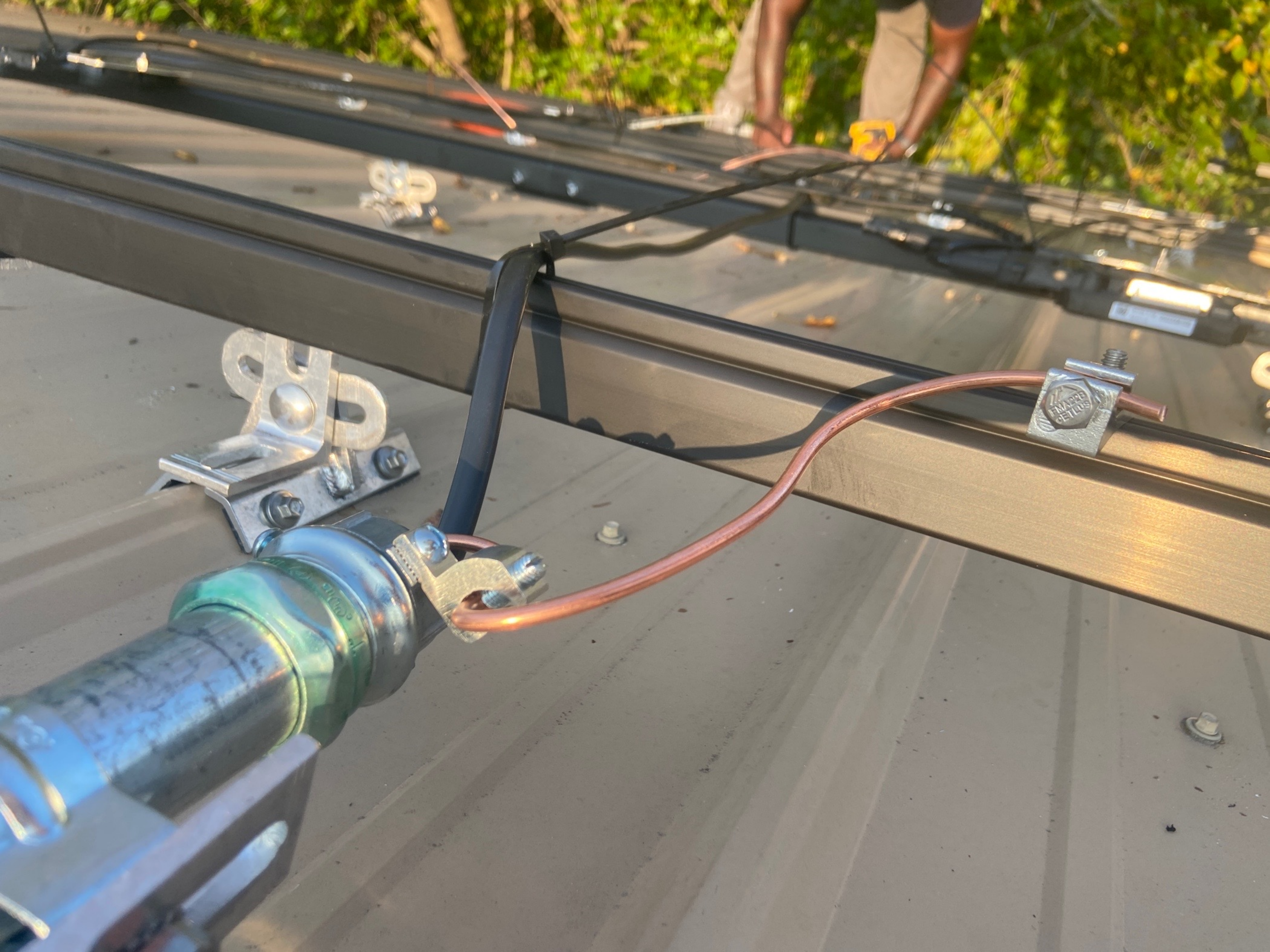
Littelfuse
POWR-GARD
CLASS RK5
Time Delay
Dual Element
Current Limiting
FUSE
Symbol & Amp.
FLNR 80
250 VAC OR LESS

Littelfuse
POWR-GARD
CLASS RK5
Time Delay
Dual Element
Current Limiting
FUSE
Symbol & Amp.
FLNR 80
250 VAC OR LESS

1











**⚠ CAUTION
SOLAR CIRCUIT**

pvlabs.com

05-330



EATON

General Duty Safety Switch
Interrupteur de sécurité à usage général
Interruptor de seguridad de servicio general

100 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 É.-U. / Hecho en E.U.A.

⚠ DANGER
HAZARDOUS VOLTAGE, WILL CAUSE SEVERE INJURY OR DEATH.
• Never operate with cover open.
• Turn OFF power ahead of work and use proper lockout/tagout. Replace all parts. Close cover before turning power ON.

TENSION DANGEREUSE, PEUT CAUSER DES BLESSURES GRAVES OU LA MORT.
• Ne jamais manœuvrer l'interrupteur lorsque le couvercle est ouvert.
• Couper l'alimentation en amont de l'interrupteur au site de toute intervention. Remplacer les pièces. Fermer le couvercle avant de remettre sous tension. Remplacer toutes les pièces avant de fermer le couvercle.

⚠ PELIGRO
VOLTAJE PELIGROSO, PUEDE CAUSAR HERIDAS SEVERAS O LA MUERTE.
• Nunca opere el interruptor con la tapa abierta.
• Desconecte la alimentación del interruptor antes de trabajar. Reemplace las piezas. Cierre la cubierta antes de volver a energizar.

30-0381

AC DISCONNECT
PHOTOVOLTAIC SYSTEM
POWER SOURCE

RATED AC
OUTPUT CURRENT **100** 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

05-215



ON
|

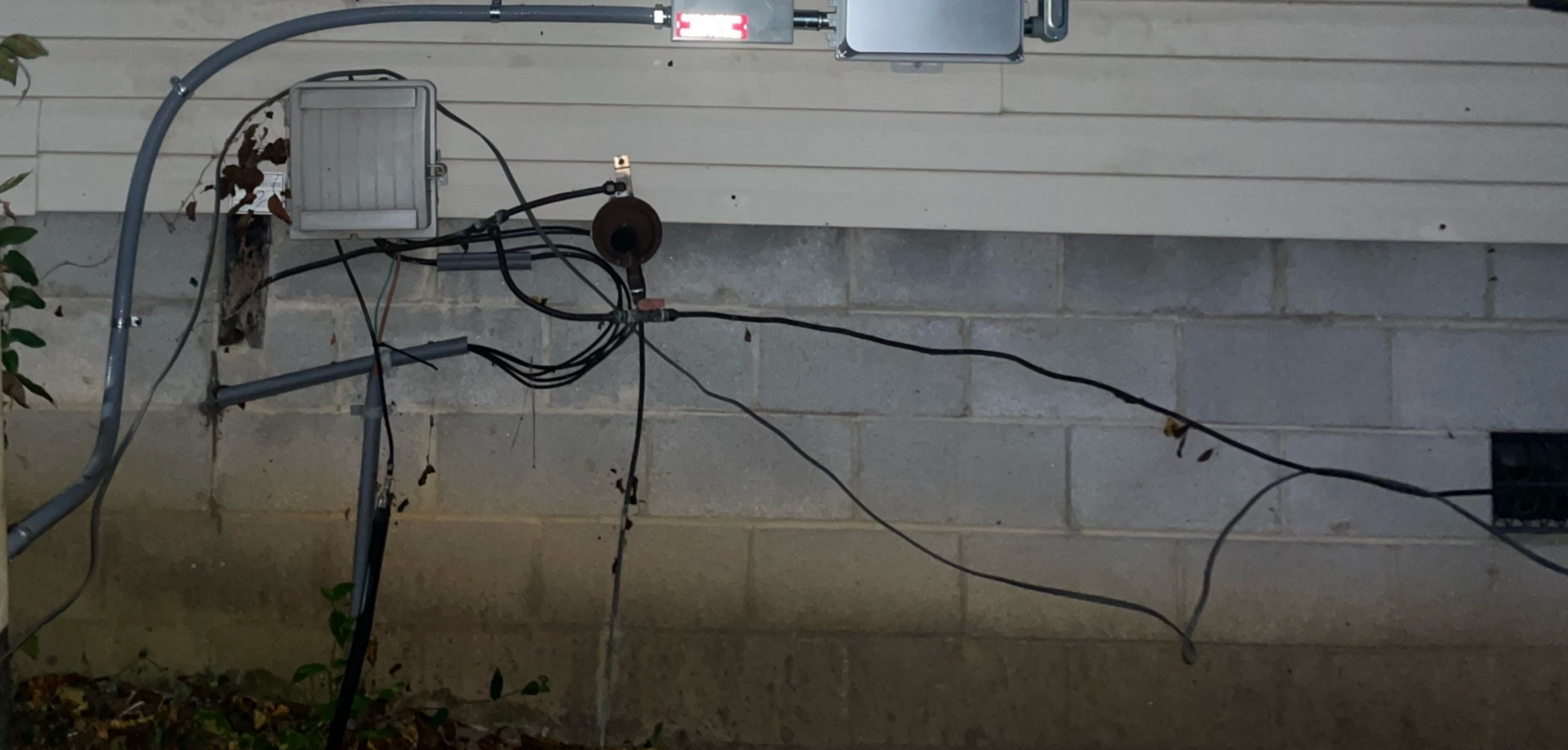
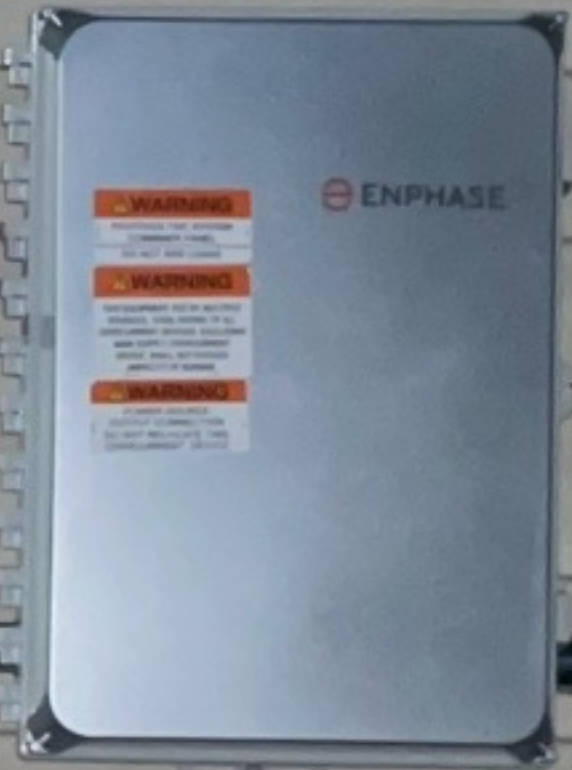
OFF
○

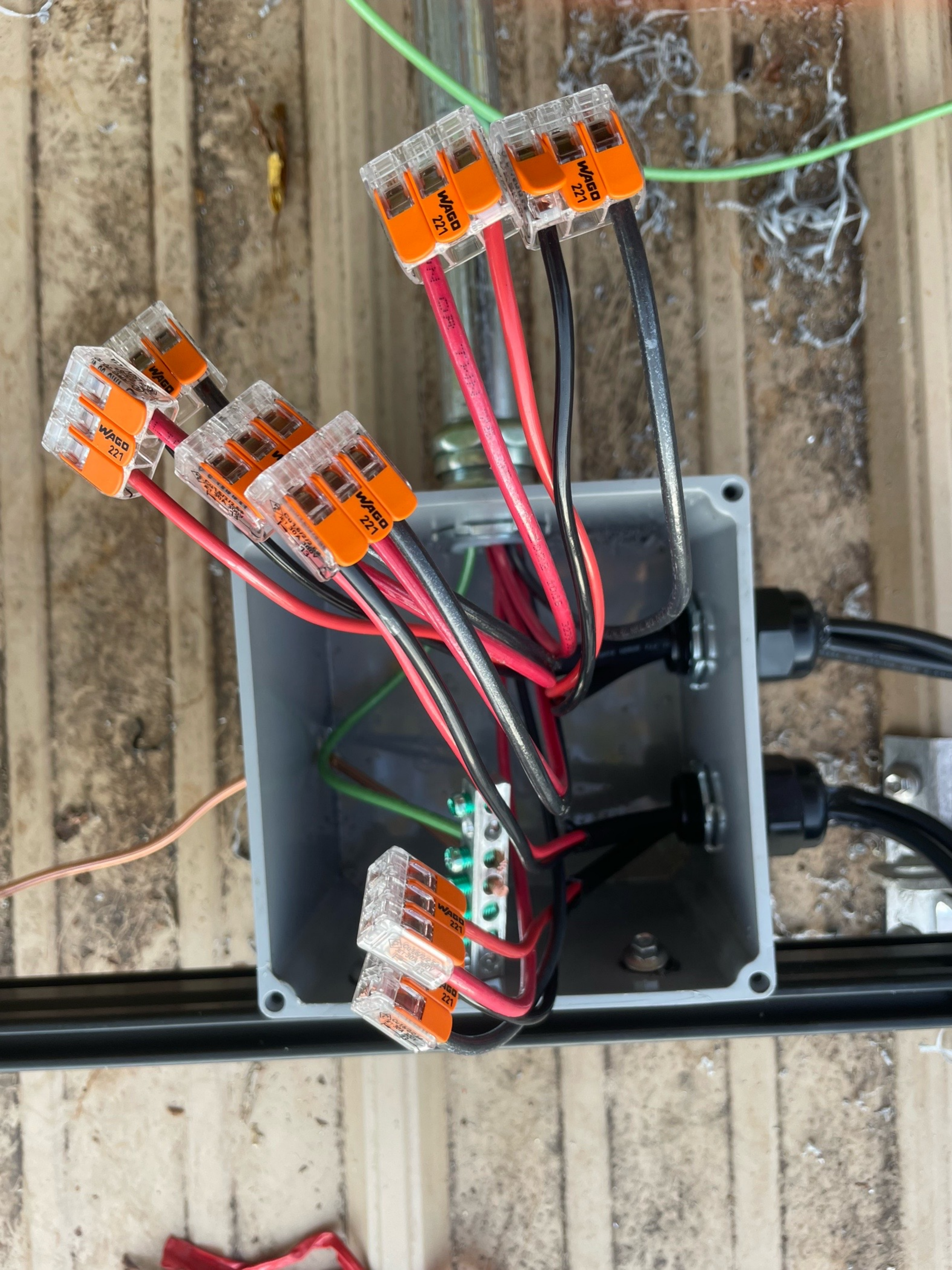
RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM

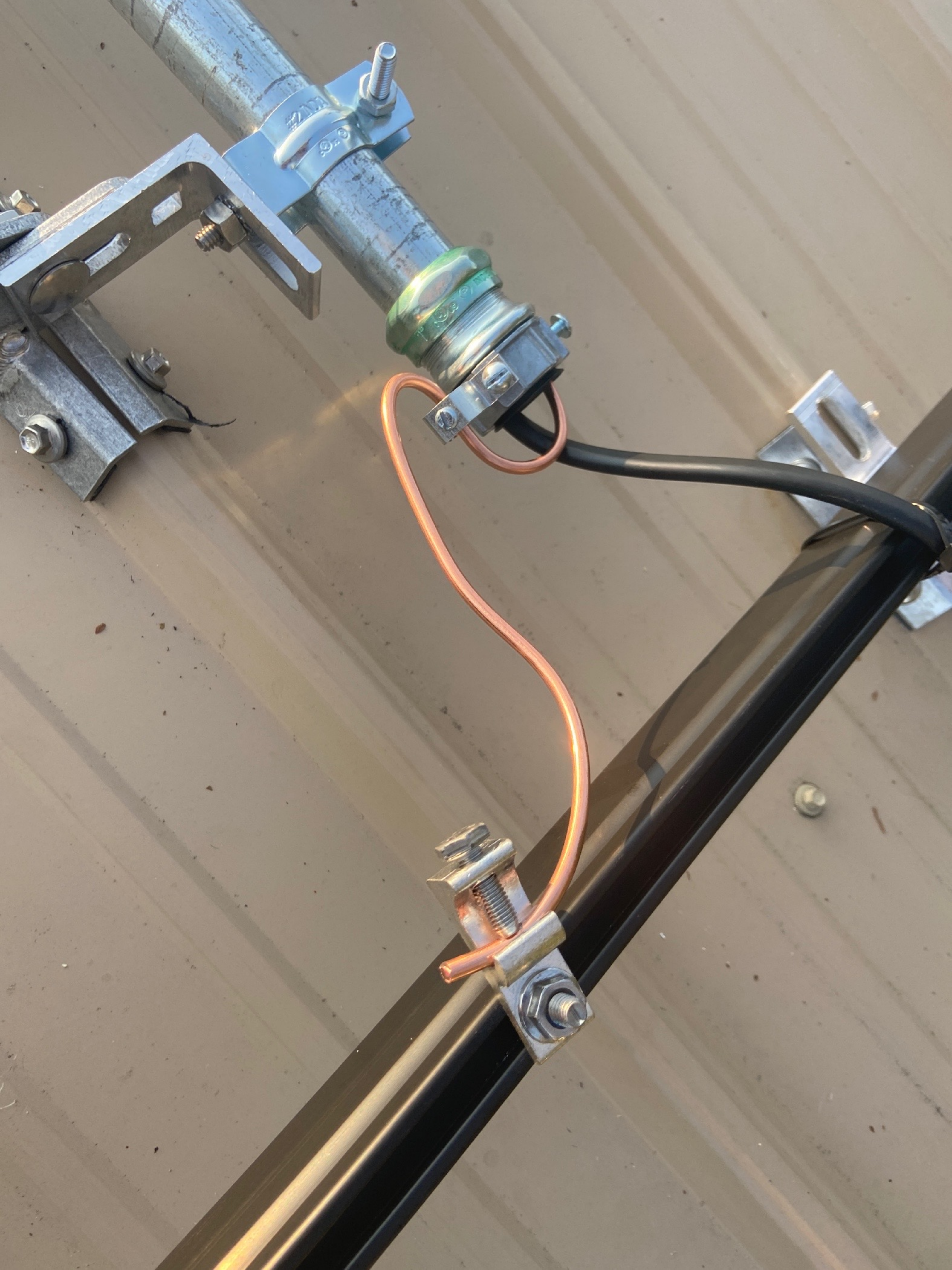
05-316

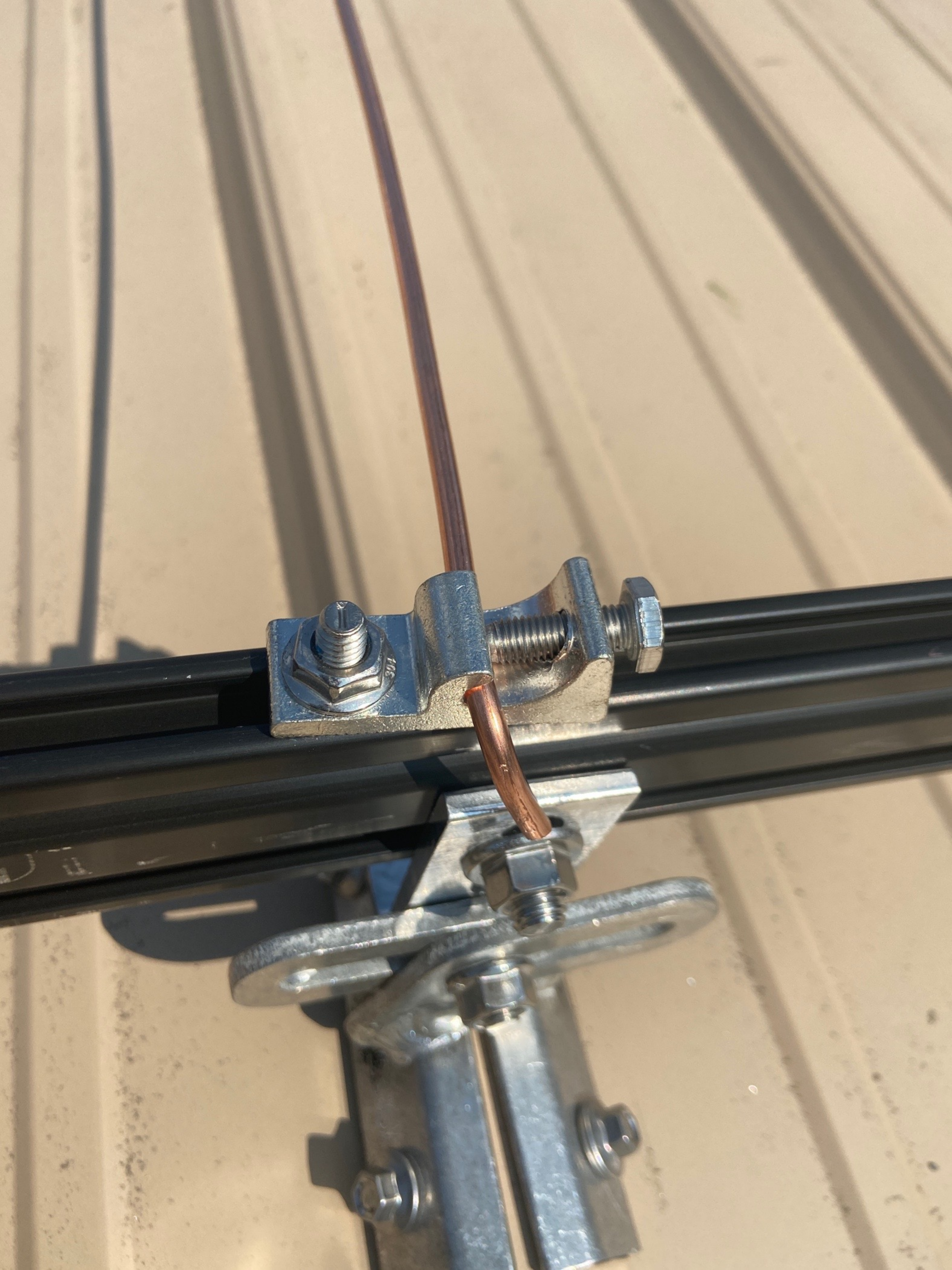


WARNING
SOLAR PV SYSTEM
EQUIPPED WITH
RAPID SHUTDOWN

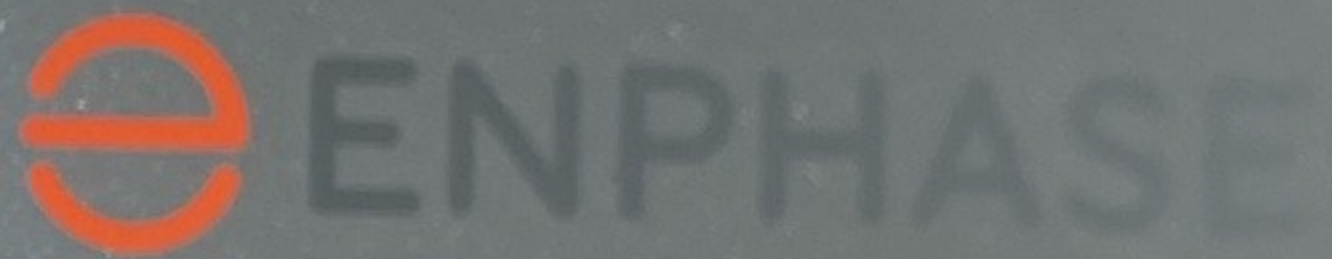












⚠ WARNING

PHOTOVOLTAIC SYSTEM
COMBINER PANEL

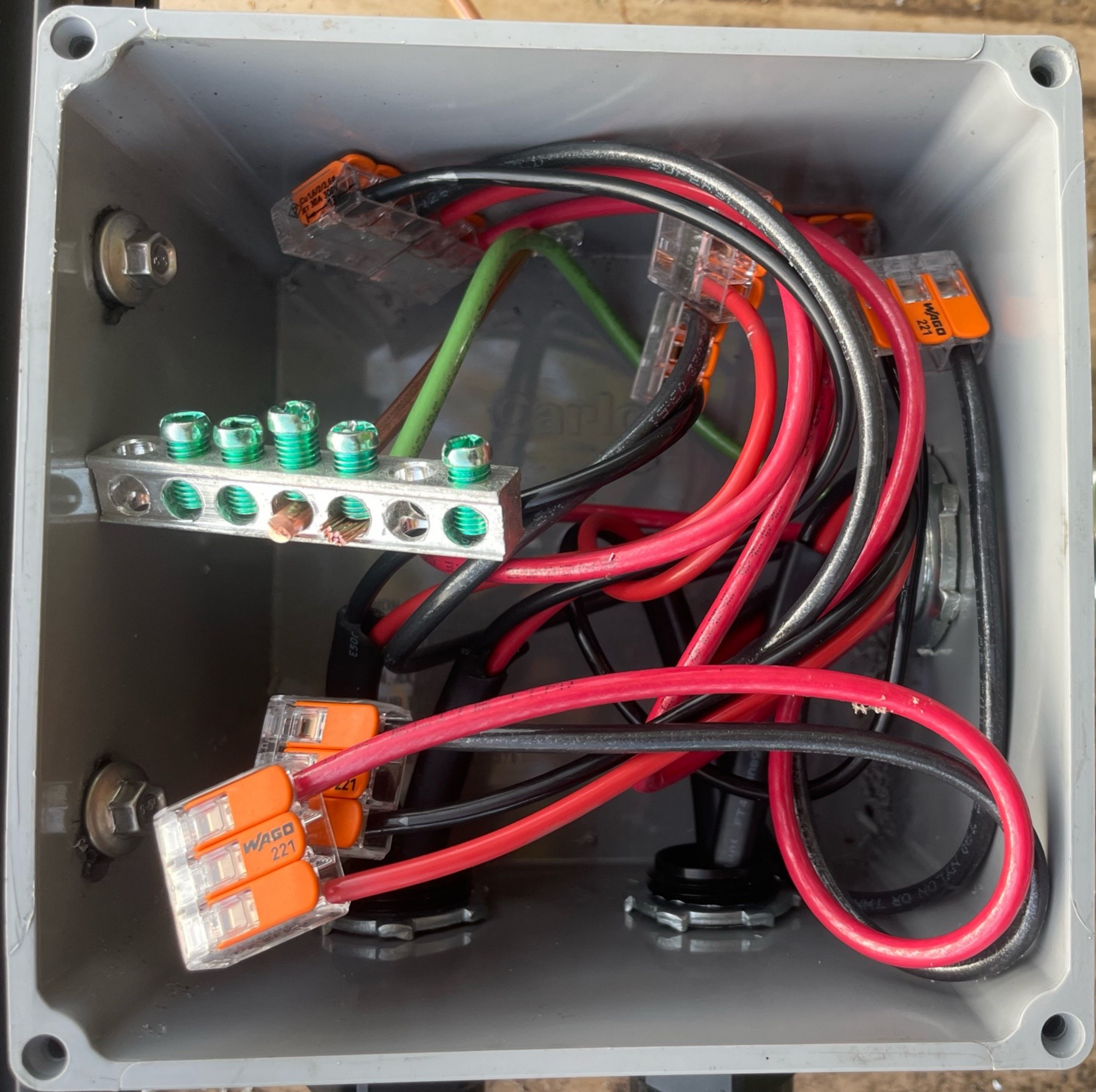
DO NOT ADD LOADS

⚠ 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

POWER SOURCE
OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE





S-5!
SOLUTIONS

Technical specifications and installation instructions for the solar mounting system components.

Additional technical specifications and installation instructions for the solar mounting system components.













Serial No. **M220906-B0508**



Model Number	MSE345SX5T	
Rated Maximum Power	[W] 345 (-0/+3%)	
Open – Circuit Voltage	[V] 41.0	
Voltage at Pmax	[V] 33.4	
Short – Circuit Current	[A] 10.92	
Current at Pmax	[A] 10.34	
Max. System Voltage	[V] 1000	
Max. Series overcurrent protective device (where required) fuse rating	[A] 20	
Standard test condition	AM=1.5 E=1000W/m ² Tc=25°C	

For field connections, use Cu only, 12AWF (US, CANADA), 4mm² (EU, Asia) wires insulated for a minimum of 90°C, rated for wet conditions and resistant to ultra violet radiation (where exposed). See installation manual for PV connector details and compatibility. Avertissement Risque de choc électrique. Ce module produit des tensions élevées dans la lumière du soleil. Risque électrique peut choquer, brûler ou de provoquer la mort. Ne pas toucher la borne.



Fire Rating : Type 1
 Class of Equipment: Class II
 Design Load: Minimum 3600 Pa front and minimum 1600 Pa back load

Warning
 PV modules generate voltage even with very weak light. Do not open the junction box. Les modules PV produisent tension même en basse lumière. Ne pas ouvrir la boîte de jonction.



Address:
 8303 S. New Braunfels Ave.
 San Antonio, TX 78235

ASSEMBLED IN THE USA

- Ensure all products are appropriate for the installation, environment, and array under the site's loading conditions.
- Use only IronRidge parts or parts recommended by IronRidge; substituting parts may void any applicable warranty.
- Review the [Design Assistant](#) and [Certification Letters](#) to confirm design specifications.
- Ensure provided information is accurate. Issues resulting from inaccurate information are the installer's responsibility.
- Ensure bare copper grounding wire does not contact aluminum and zinc-plated steel components, to prevent risk of galvanic corrosion.
- If loose components or loose fasteners are found during periodic inspection, re-tighten immediately. Any components showing signs of corrosion or damage that compromise safety shall be replaced immediately.
- Provide an appropriate method of direct-to-earth grounding according to the latest edition of the National Electrical Code, including NEC 250: Grounding and Bonding, and NEC 690: Solar Photovoltaic Systems.
- Disconnect AC power before servicing or removing modules, AC modules, microinverters and power optimizers.
- Review module and any 3rd party manufacturer's documentation for compatibility and compliance with warranty terms and conditions.

RATINGS

UL 2703 LISTED



Conforms to STD UL 2703 Standard for Safety First Edition: Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels

- Max Overcurrent Protective Device (OCPD) Rating: 40A
- Max Module Size: 30.5 ft²
- Module Orientation: Portrait or Landscape
- System Design Load Rating: 10 PSF downward, 5 PSF upward, 5 PSF lateral
- Actual system structural capacity including spans and cantilevers are defined by PE stamped [certification letters](#).
- CAMO Specific Design Load rating: 50 PSF downward, 50 PSF upward, 15 PSF lateral

Certified to CSA TIL No. A-40 Photovoltaic Module Racking Systems

- Load Rating: 2400 PA (50 PSF)

CLASS A SYSTEM FIRE RATING PER UL 2703

- Any Roof Slope with Module Types 1, 2, 3, 13, 19, 25 & 29.
- Any module-to-roof gap is permitted, with no perimeter guarding required. This rating is applicable with any third-party attachment.
- Class A rated PV systems can be installed on Class A, B, and C roofs without affecting the roof fire rating.

WATER SEAL RATINGS:

- UL 441 (Flashfoot2, All Tile Hook, Knockout Tile, Flashvue, L-Mount)
- TAS 100(A)-95 (Flashfoot2, All Tile Hook, Knockout Tile, Flashvue, L-Mount, Qbase)
- Tested and evaluated without sealant.
- Any roofing manufacturer approved sealant is allowed. Ratings applicable for roof slopes between 2:12 and 12:12

STRUCTURAL CERTIFICATION

- Designed and Certified for Compliance with the International Building Code & ASCE/SEI-7

FLORIDA PRODUCT APPROVAL #FL29843

- Conforms to TAS202, TAS100(A)
- Approved for installation both inside and outside High Velocity Hurricane Zones (HVHZ)
- Allowable design pressure up to +100/-100 PSF
- Additional details and full list of approved components can be found [here](#).

MARKINGS

Product markings are located on the Grounding Lug bolt head.



NO Attic run

All wiring in conduit
(EMT)

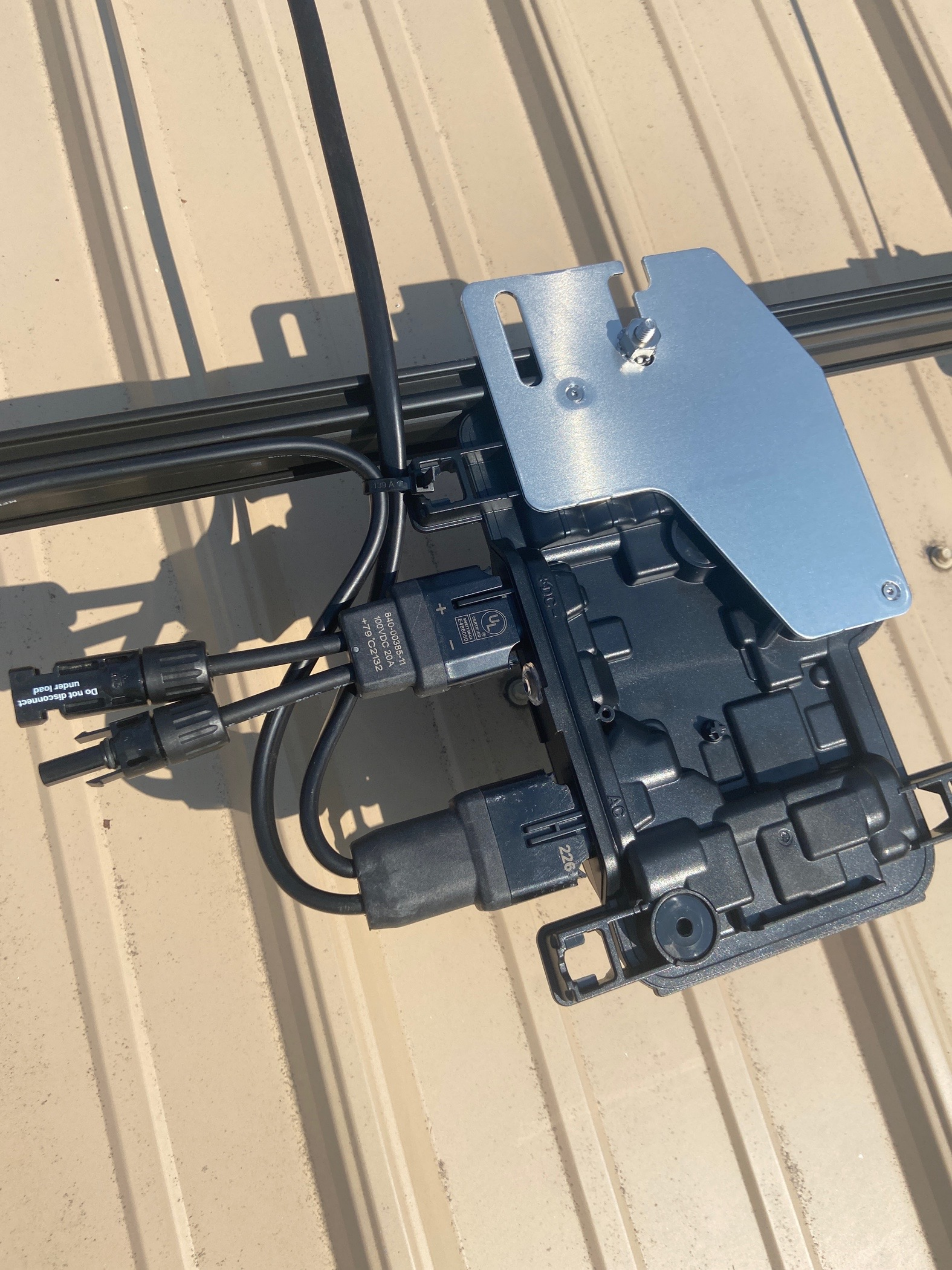












840-00385-11
100VDC 20A
+79°C2132



Do not disconnect
under load

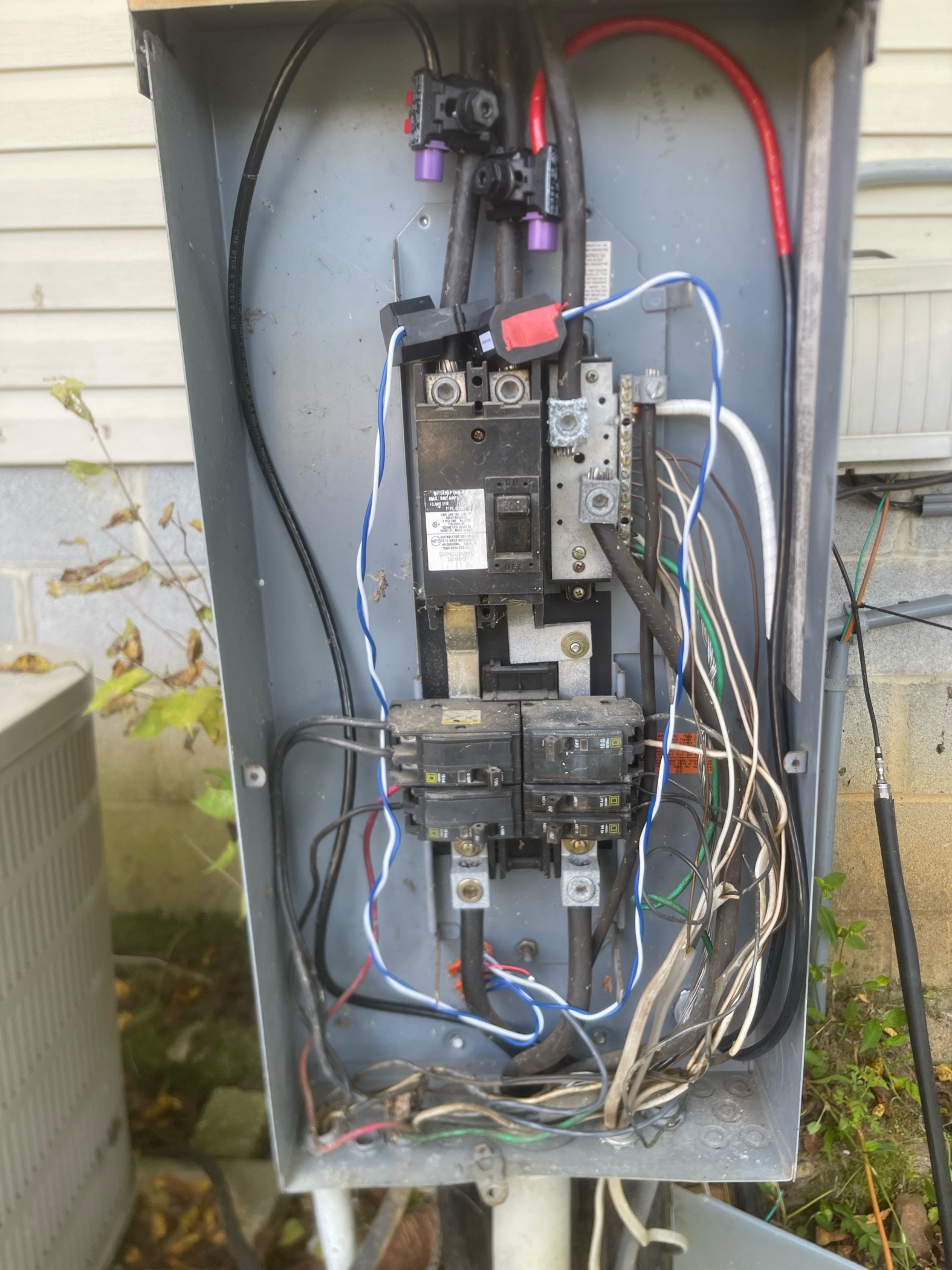
226











AC DISCONNECT

PHOTOVOLTAIC SYSTEM
POWER SOURCE

RATED AC OUTPUT CURRENT  AMPS

NOMINAL OPERATING AC VOLTAGE  VOLTS

pvlabs.com

03-306



WARNING

ELECTRIC SHOCK HAZARD

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

pvlabs.com

05-215

E.U.A.

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840-00385-11
100VDC 20A
+79 C2132

PV WIRE 12AWG

E500984-S (UL) Type DG

E500984-S (UL) Type DG

60V THHN/THWN-2 90C

STOP

221

UL
CERTIFIED
BY
ELECTRICAL
EQUIPMENT

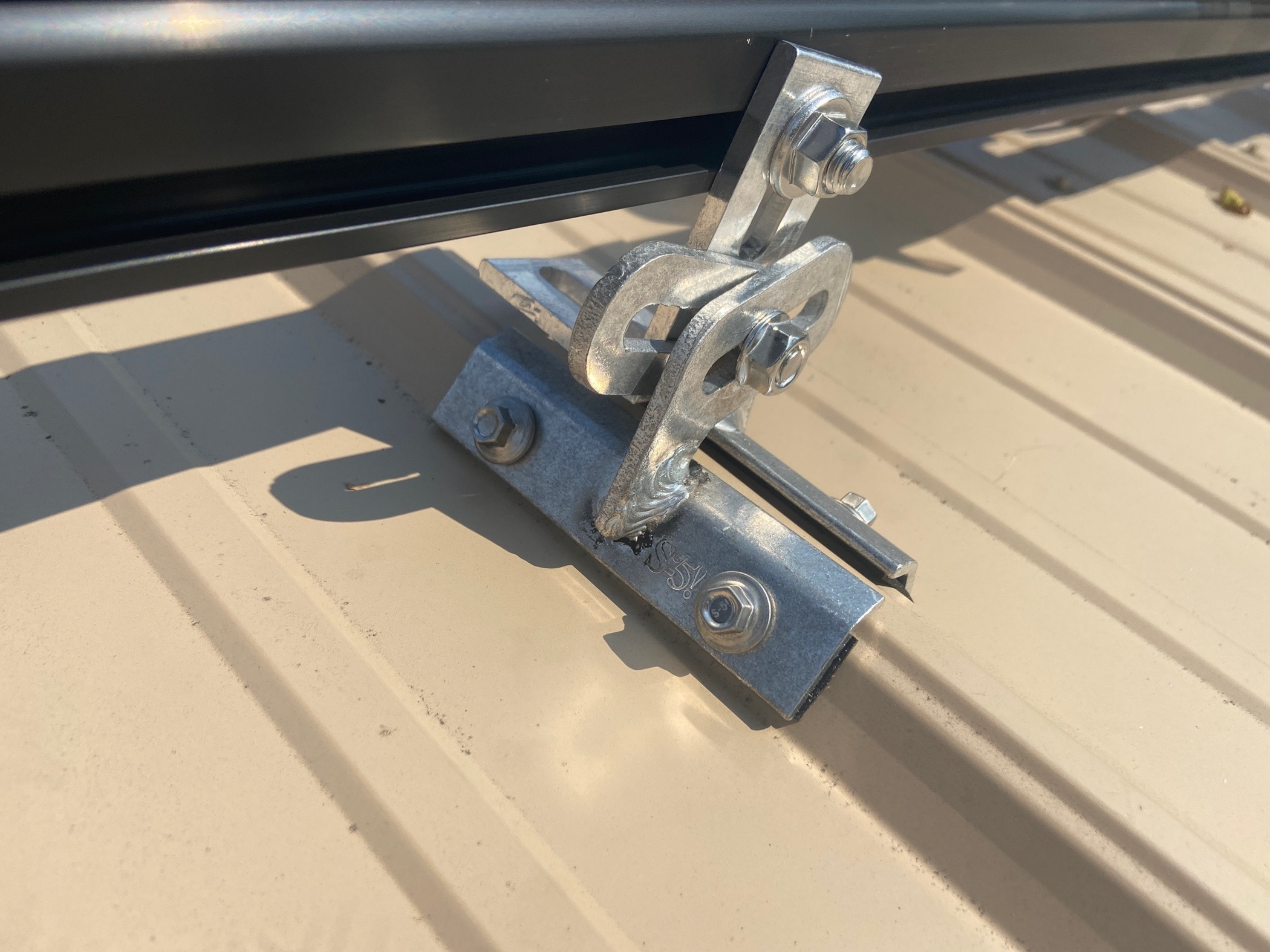


840-00388-16
250VAC 20A
+79°C 2212

840-00385-11
100VDC 20A
+79°C 2132

209

Do not disconnect
under load







Serial No. **M220906-B0508**



Model Number	MSE345SX5T	
Rated Maximum Power	[W] 345 (-0/+3%)	
Open – Circuit Voltage	[V] 41.0	
Voltage at Pmax	[V] 33.4	
Short – Circuit Current	[A] 10.92	
Current at Pmax	[A] 10.34	
Max. System Voltage	[V] 1000	
Max. Series overcurrent protective device (where required) fuse rating	[A] 20	
Standard test condition	AM=1.5 E=1000W/m ² Tc=25°C	

For field connections, use Cu only, 12AWF (US, CANADA), 4mm² (EU, Asia) wires insulated for a minimum of 90°C, rated for wet conditions and resistant to ultra violet radiation (where exposed). See installation manual for PV connector details and compatibility. Avertissement Risque de choc électrique. Ce module produit des tensions élevées dans la lumière du soleil. Risque électrique peut choquer, brûler ou de provoquer la mort. Ne pas toucher la borne.

Fire Rating : Type 1
 Class of Equipment: Class II
 Design Load: Minimum 3600 Pa front and minimum 1600 Pa back load



Warning
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Address:
 8303 S. New Braunfels Ave.
 San Antonio, TX 78235

ASSEMBLED IN THE USA

EATON

General Duty Safety Switch
Interrupteur de sécurité à usage général
Interruptor de seguridad de servicio general

100 A, 240 V, 50 Hz

Complete ratings inside
Valeurs 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
DANGEROUS VOLTAGE WILL CAUSE
SERIOUS INJURY OR DEATH.
Do not operate with cover open.
Do not touch exposed parts.
Do not touch terminals or conductors.
Do not touch conductors or terminals.
Do not touch conductors or terminals.
Do not touch conductors or terminals.

⚠ PELIGRO
DANGEROUS VOLTAGE WILL CAUSE
SERIOUS INJURY OR DEATH.
No opere con la cubierta abierta.
No toque las partes expuestas.
No toque los terminales o conductores.
No toque conductores o terminales.
No toque conductores o terminales.
No toque conductores o terminales.



AC DISCONNECT
PHOTOVOLTAIC SYSTEM
POWER SOURCE

RATED AC OUTPUT CURRENT AMPS

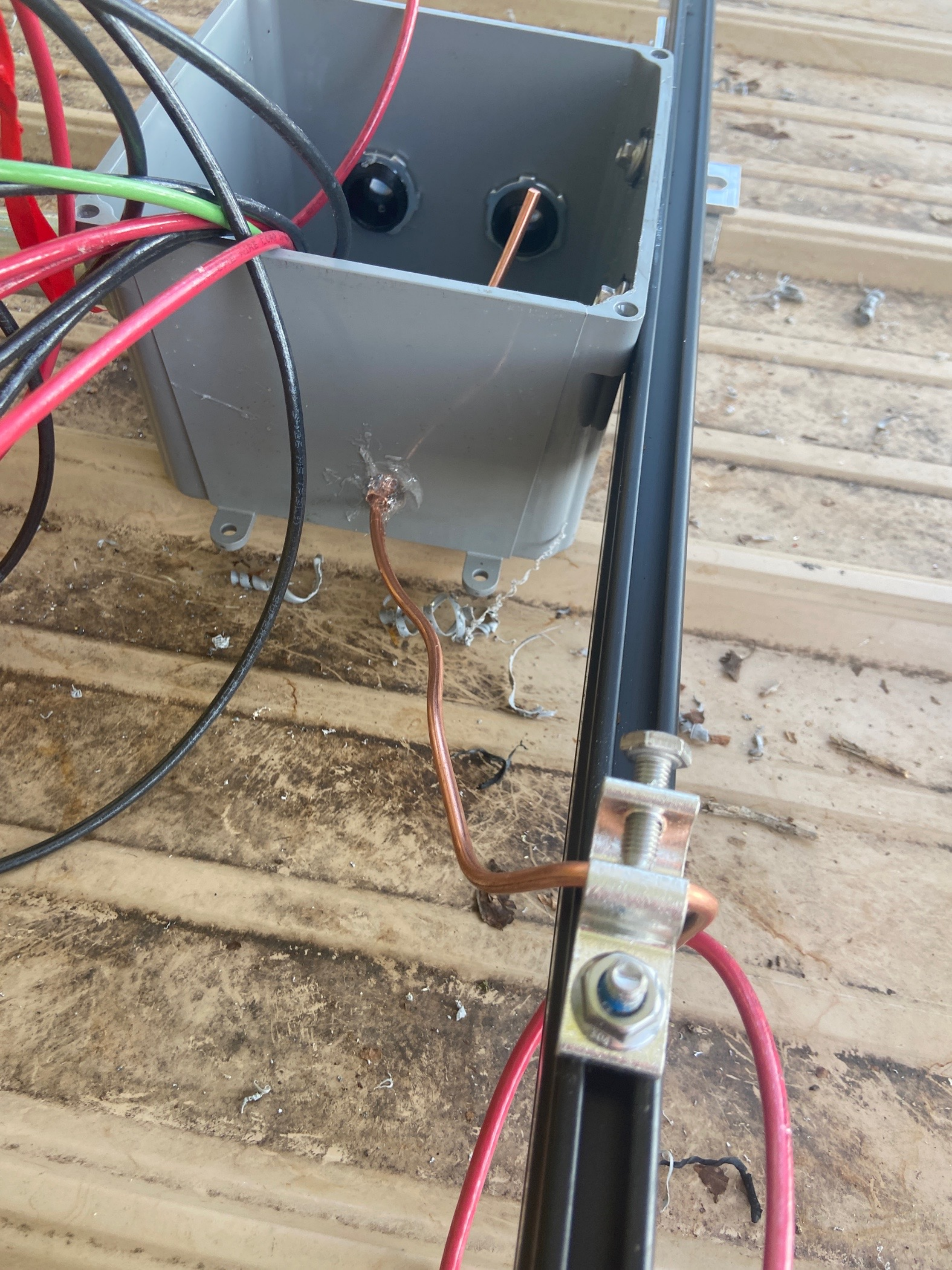
NOMINAL OPERATING AC VOLTAGE VOLTS

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

ON
I

OFF
O

**RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM**



PV SYSTEM kWh METER

WARNING

DUAL POWER SUPPLY

SOURCES: UTILITY GRID
AND PV SOLAR
ELECTRIC SYSTEM

CENTRON®

000246F9F9
FCC ID: SK9AM17, IC:884G-AM17, MODEL:AM17

LEVEL 9

CL200 240V 3W TYPE C2M 30TA 1.0Kh

ZZZ 1F3520 H67

CA 0.5
FM2S
60HZ

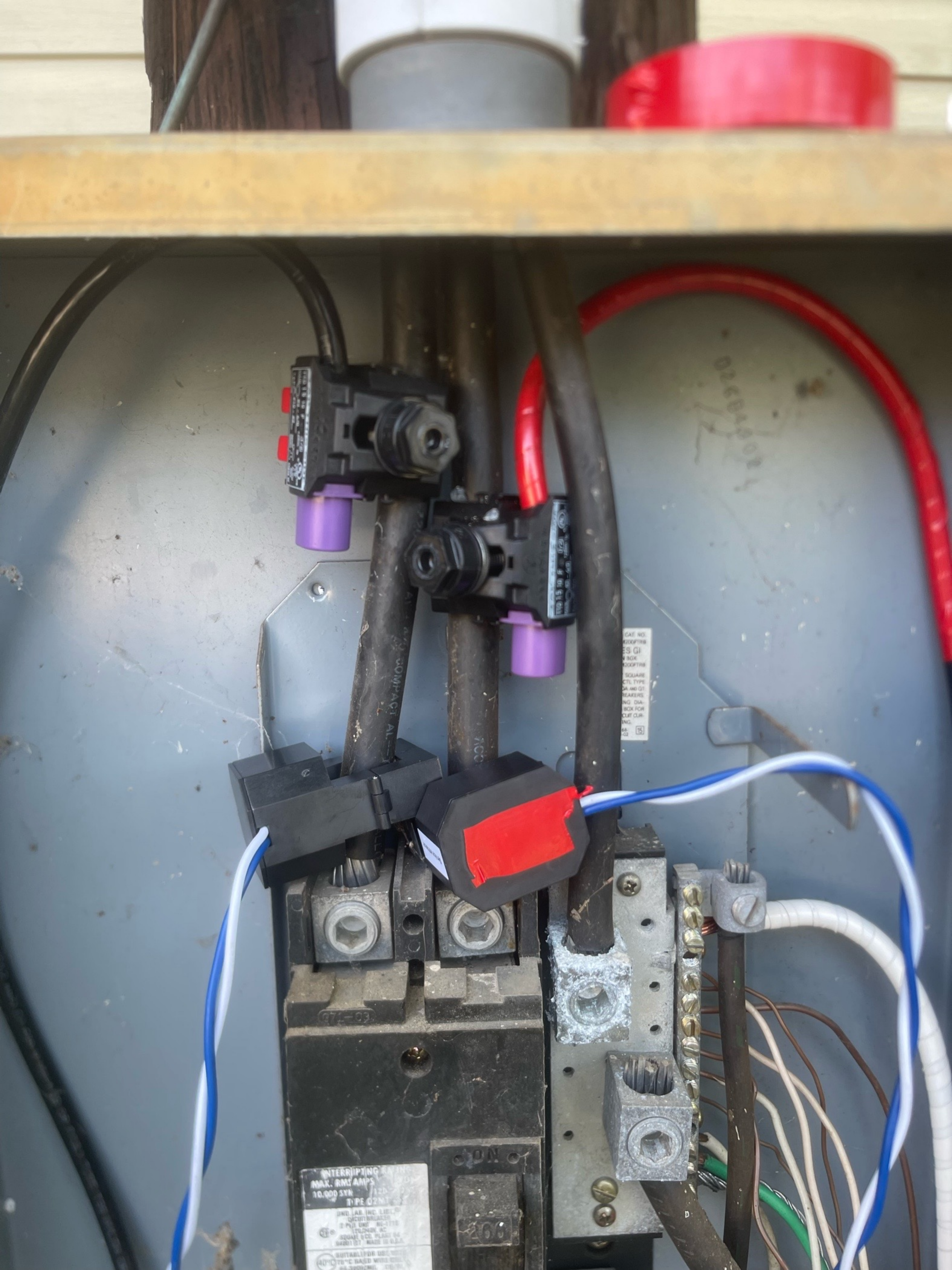
DUKE ENERGY PROGRESS

332 284 083

F120529

OpenWay
Hróa

1/20



01060901

CATE NO
200FTR
ES GI
BOX
200FTR
SQUARE
CTL TYPE
DA-40 QT
BREAKERS
NG DIA-
BOX FOR
CUT CUR-
ING.
15

INTERRUPTING CAP
MAX. RMS AMPS
10,000 SYN / 120
TYPE QZM
DND LAB. INC. LIEB
DISCONTINUED
D-PH ONE NO-1718
TOLSON AC
EQUALE VCE PLANT DE
MAY 1971 MADE IN U.S.A.
SUITABLE FOR USE WITH
10°C/20°C BASED WIRE SIZES
AS SHOWN IN U.S. & C.

200

COMPACT AIR

QZM

974-03



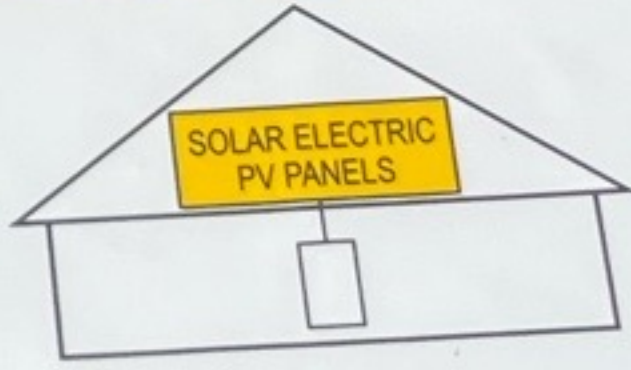
E500984-S (UL) Type DG 600V THHN/THWN-2 90C dry/wet 2/C 12AWG -40C oil res 1 sunlight resistant

MFR61

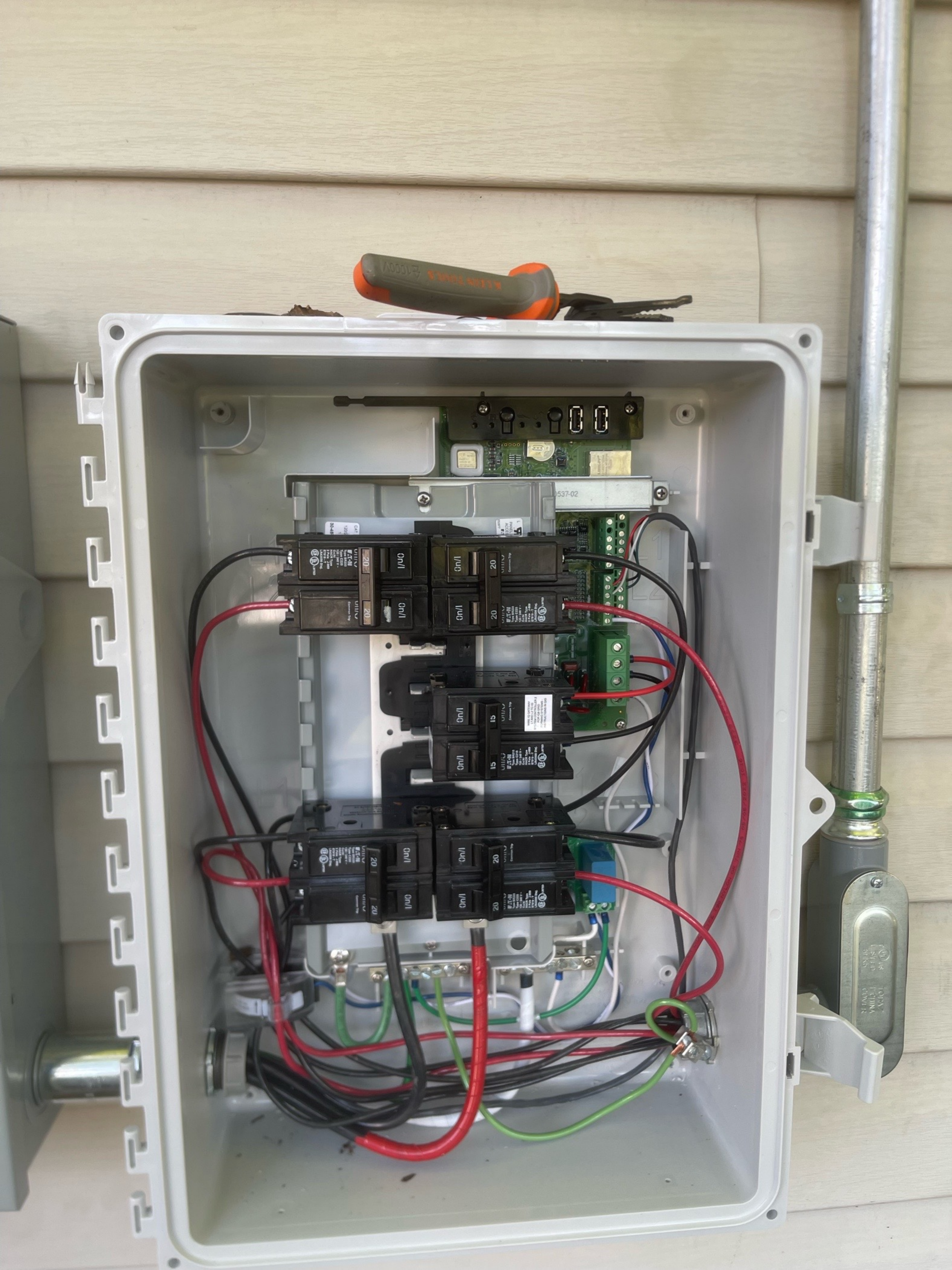
⚠ WARNING
TURN OFF PHOTOVOLTAIC
AC DISCONNECT PRIOR TO
WORKING INSIDE PANEL

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

**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



ALLIANCE 41000V

537-02

20 On/I

On/I

20

20 On/I

On/I

20

On/I

15

On/I

15

On/I

02

On/I

02

UL LISTED
UL 508
UL 508A
UL 508B
UL 508C
UL 508D
UL 508E
UL 508F
UL 508G
UL 508H
UL 508I
UL 508J
UL 508K
UL 508L
UL 508M
UL 508N
UL 508O
UL 508P
UL 508Q
UL 508R
UL 508S
UL 508T
UL 508U
UL 508V
UL 508W
UL 508X
UL 508Y
UL 508Z



