











**PHOTOVOLTAIC SYSTEM  
AC DISCONNECT**

**WARNING** ⚠️  
DUAL POWER SUPPLY  
DO NOT ATTEMPT TO REPAIR OR  
REPLACE EITHER THE DC OR AC DISCONNECT

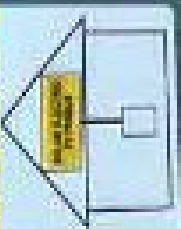
**ELECTRIC SHOCK HAZARD**  
DO NOT TOUCH OR REMOVE COVER  
OR REPAIR OR REPLACE EITHER THE DC OR AC DISCONNECT

OPERATING VOLTAGE / VOLTS  
OPERATING CURRENT / AMPS



**SOLAR PV SYSTEM EQUIPPED  
WITH RAPID SHUTDOWN**

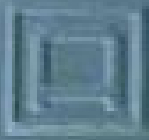
TURN RAPID SHUTDOWN  
SWITCH TO THE  
"OFF" POSITION TO  
SHUT DOWN PV SYSTEM  
AND REDUCE  
SHOCK HAZARD  
IN THE ARRAY



**WARNING** ⚠️  
DO NOT ATTEMPT TO REPAIR OR  
REPLACE EITHER THE DC OR AC DISCONNECT

**WARNING** ⚠️  
DO NOT RELOCATE  
THIS EQUIPMENT  
DEVICE

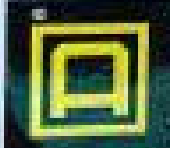
**EMERGENCY  
DISCONNECT**  
RECONNECT WITH CARE







**RAPID SHUTDOWN  
SWITCH FOR  
SOLAR PV SYSTEM**



**GENERAL DUTY  
SAFETY SWITCH  
INTERRUPTOR DE  
SEGURIDAD DE  
SERVICIO GENERAL**  
30 A  
310 Vac 1-Ø



**▲ DANGER / PELIGRO**  
RISK OF ELECTRIC SHOCK. DISCONNECT OR LOCK OFF  
POWER TO ELECTRICAL EQUIPMENT BEFORE WORKING ON  
IT. (SEE INSTRUCTIONS)

▲ Safety warnings provided apply to the  
equipment and are not intended to replace  
the manufacturer's instructions.  
▲ The electrical equipment is to be used  
only for the purposes specified in the  
instructions.  
▲ Never operate equipment under any  
load other than that specified.  
▲ For all wiring, refer to the applicable  
local, state, and national electrical codes  
and regulations.  
▲ Do not use electrical equipment in  
hazardous locations.  
▲ Do not use electrical equipment in  
explosive atmospheres.  
▲ Do not use electrical equipment in  
corrosive environments.  
▲ Do not use electrical equipment in  
wet or damp locations.  
▲ Do not use electrical equipment in  
locations where it is subject to  
mechanical damage.  
▲ Do not use electrical equipment in  
locations where it is subject to  
overheating.  
▲ Do not use electrical equipment in  
locations where it is subject to  
vibration.  
▲ Do not use electrical equipment in  
locations where it is subject to  
pollution.  
▲ Do not use electrical equipment in  
locations where it is subject to  
radio frequency interference.  
▲ Do not use electrical equipment in  
locations where it is subject to  
magnetic fields.  
▲ Do not use electrical equipment in  
locations where it is subject to  
static electricity.  
▲ Do not use electrical equipment in  
locations where it is subject to  
lightning strikes.  
▲ Do not use electrical equipment in  
locations where it is subject to  
thunderstorms.  
▲ Do not use electrical equipment in  
locations where it is subject to  
ice storms.  
▲ Do not use electrical equipment in  
locations where it is subject to  
snow storms.  
▲ Do not use electrical equipment in  
locations where it is subject to  
hail storms.  
▲ Do not use electrical equipment in  
locations where it is subject to  
strong winds.  
▲ Do not use electrical equipment in  
locations where it is subject to  
heavy rain.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme temperatures.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme humidity.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme dryness.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme cold.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme heat.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme pressure.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme vacuum.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme shock.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme vibration.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme noise.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme radiation.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme magnetic fields.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme electric fields.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme electromagnetic interference.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme radio frequency interference.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme light.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme darkness.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme sound.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme silence.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme pressure waves.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme sound waves.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme electromagnetic waves.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme radio waves.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme microwaves.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme infrared waves.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme ultraviolet waves.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme gamma waves.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme X-rays.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme cosmic rays.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme neutrinos.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme gravitons.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme dark matter.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme dark energy.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme quantum entanglement.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme quantum superposition.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme quantum tunneling.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme quantum teleportation.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme quantum entanglement.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme quantum superposition.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme quantum tunneling.  
▲ Do not use electrical equipment in  
locations where it is subject to  
extreme quantum teleportation.

**▲ PHOTOVOLTAIC SYSTEM  
AC DISCONNECT ▲**

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

**▲ WARNING**  
POWER TO THIS BUILDING IS ALSO  
SUPPLIED FROM MAIN DISTRIBUTION  
UTILITY DISCONNECT LOCATED  
L411

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

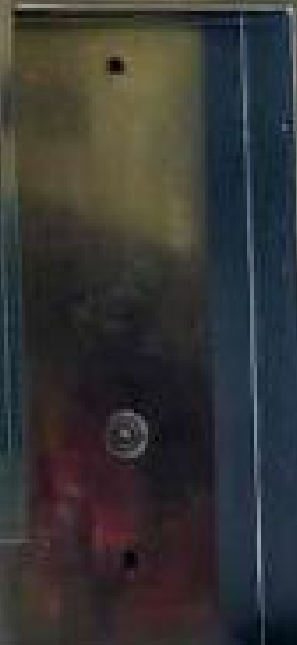
110

000000

**WARNING**  
 ⚠️ DE-ENERGIZE ALL CIRCUITS BEFORE INSTALLING THE CT LEAD WIRES (BELOW THIS DEADFRONT). SAFETY HAZARD AND RISK OF EQUIPMENT DAMAGE IF INSTALLED WHILE CIRCUITS ARE ENERGIZED.



**WARNING**  
 ⚠️ WIRE MUST BE FULLY AND LEGITIMATELY SECURED TO THE TERMINAL. WIRE MUST BE PROPERLY STRIPPED AND INSULATED TO PREVENT SHORTS.



PHOTOVOLTAIC SYSTEM  
AC DISCONNECT

**⚠ WARNING ⚠**  
DUAL POWER SUPPLY

50000-13-17-0000-01-0000-0000-0000-0000

**ELECTRIC SHOCK HAZARD**  
DO NOT TOUCH TERMINALS  
OR WIRING OR BOOTS THE LINE CABLE LEAD STRIPS  
MAY BE ELECTRIFIED BY THE OTHER INVERTER

OPERATING VOLTAGE **18.2V** VOLTS  
OPERATING CURRENT **50** AMPS

**⚠ WARNING ⚠**

THIS EQUIPMENT FED BY MULTIPLE  
SOURCES. TOTAL RATINGS OF ALL  
OVERCURRENT DEVICES, INCLUDING  
MAIN SUPPLY OVERCURRENT  
DEVICE, SHALL NOT EXCEED  
AMFACILITY OF BUSBAR.

**⚠ WARNING ⚠**

PHOTOVOLTAIC SYSTEM  
COMBINER PANEL

DO NOT ADD LOADS

**⚠ WARNING ⚠**  
MAIN BUS TERMINALS MUST BE DISCONNECTED FROM ALL OTHERS  
BEFORE ANY MAINTENANCE OR REPAIR WORK IS PERFORMED  
ON THIS EQUIPMENT. ALWAYS USE APPROPRIATE SAFETY PROCEDURES  
AND WEAR PROTECTIVE EQUIPMENT.



 **WARNING**

**ELECTRIC SHOCK HAZARD**

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



**⚠ WARNING**  
**DUAL POWER SUPPLY**  
SOURCES: UTILITY GRID AND  
PV SOLAR ELECTRIC SYSTEM









# ← Devices & Array

Connected to 34V01\_092201 | Don't mess array

Note: The PV production values are typically updated every ~5 mins.

## ● IQ GATEWAY 1

### IQ Gateway >

202308092201

### IQ Microinverters & Array >

- ✓ Scanned : 15/15
- ✓ Detected : 15/15
- ✓ Communicating : 15/15
- ✓ Array created : 1
- Producing power : 14/15
- ✓ Profile set : 15/15 (IEEE 1547-2018-PJM v2.20190412.7)

Add site notes and pictures >

ADD DEVICES



Systems



Dashboard



Support



Menu

Device and Sync Status

Online   
Fully synced

Unsynced Items

Media 0

Project 0

Sync Settings

Sync on Wifi only

OFF

[Having trouble syncing?](#)

# ← IQ Gateway Connectivity

Connected to 34V07\_092201. Don't mess away.

## Update IQ Gateway Software

IQ Gateway 202308092201



IQ Gateway successfully connected to Erphaze Cloud and Installer Toolkit

## IQ Gateway Connectivity Status



Wi-Fi



Ethernet



Cellular



Software up-to-date

Current software version 07.03.103

**START PROVISIONING DEVICES**

Successfully connected to SpectrumSetup-FF



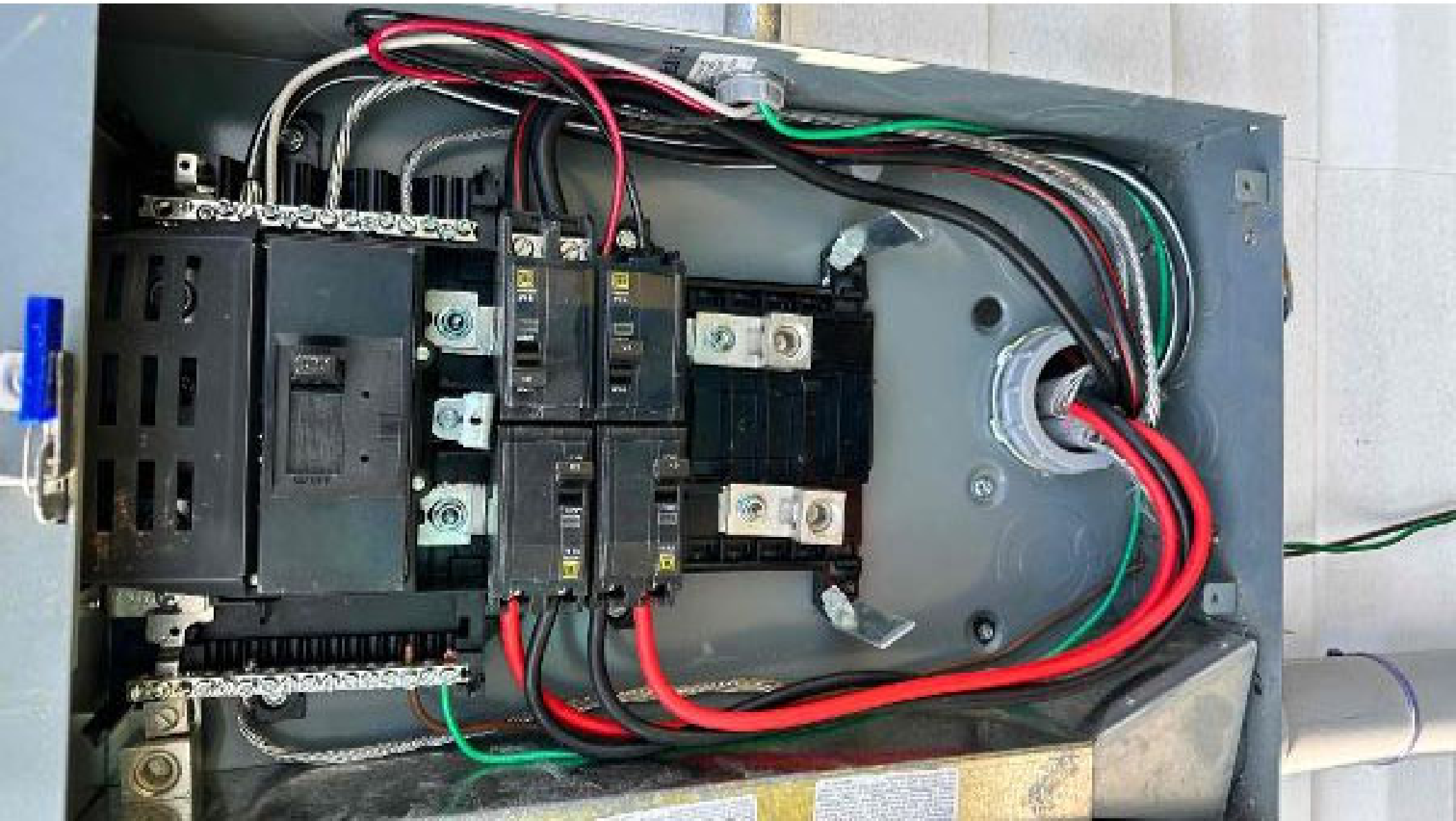


⚠ DE-EN BEFORE WELDING SAFETY EQUIPMENT INSTALLED CIRCUIT

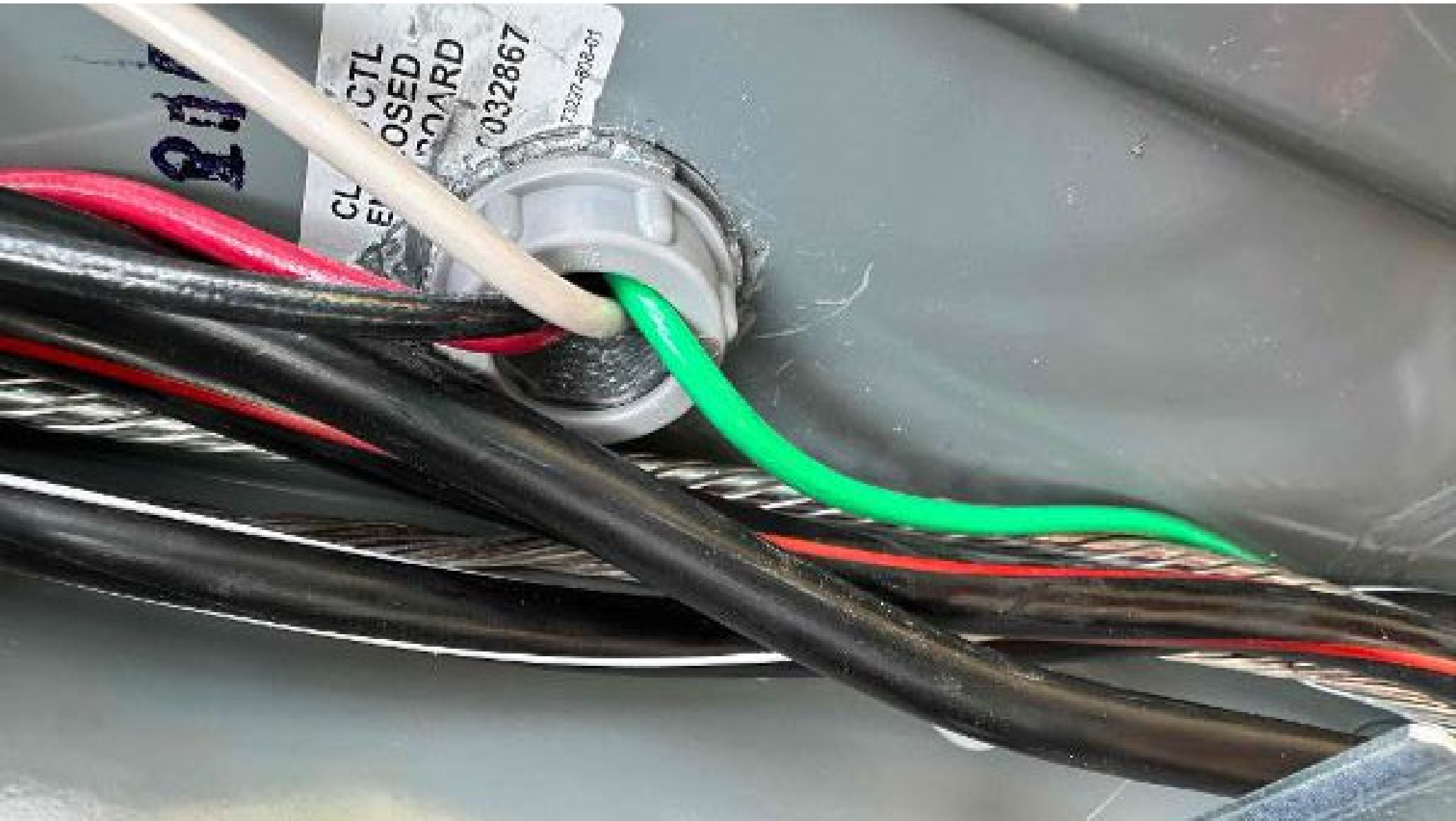
100A

WARNING: OPERATE ONLY IN ELECTRICAL PANELS OR ENCLOSURES

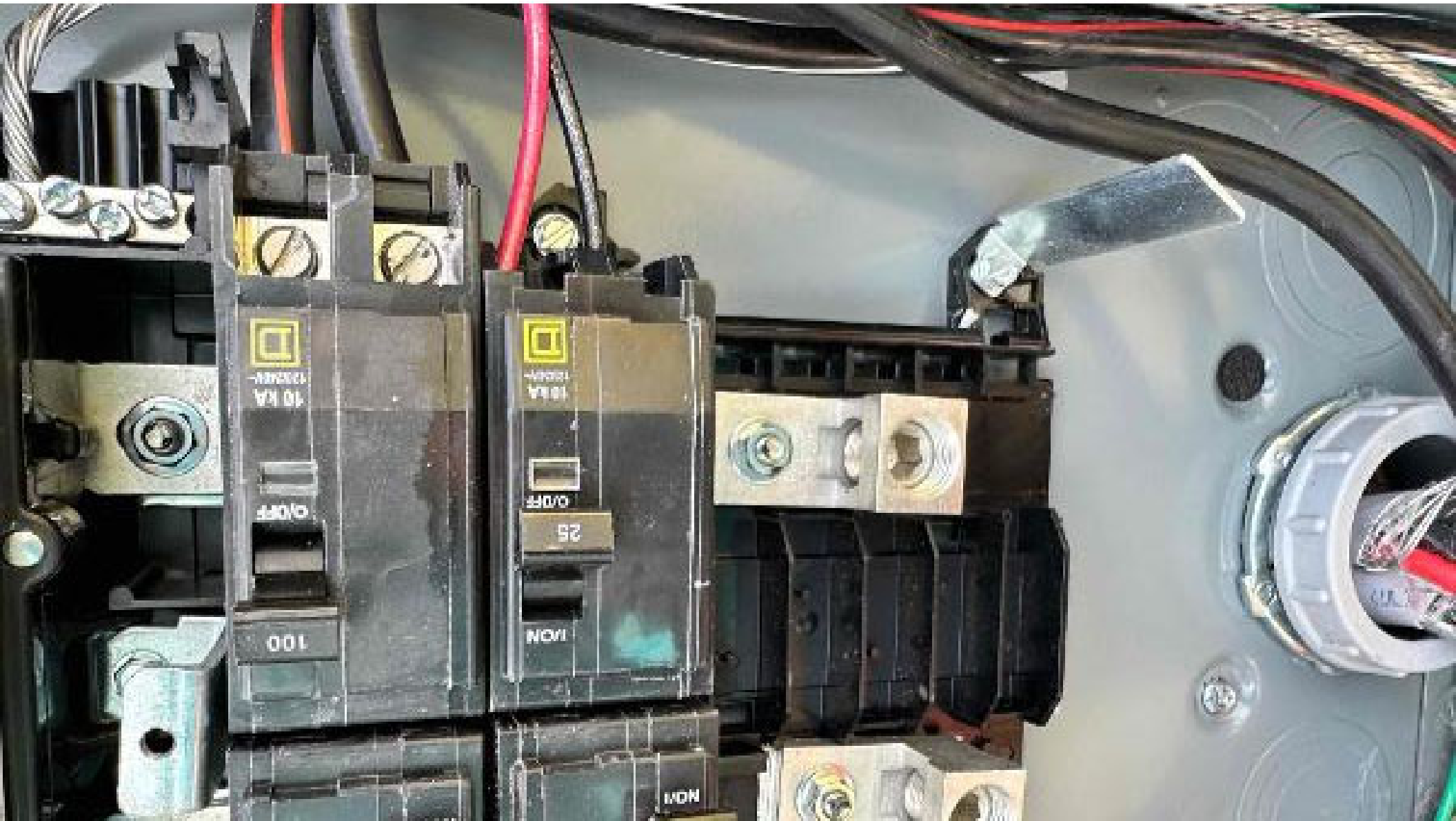
100A







CONTROL  
CLOSED  
BOARD  
032867  
73207-808-01





**30MM SPLICE 6.5" SFM**

**UNIRAC**  
BETTER SOLAR STARTS HERE



**253010U**



PACKAGE QTY: 10 EA  
WU/PO#: 0040726-01  
MANUFACTURE DATE: 05/2022  
FACTORY CODE: 025A



CALIFORNIA PROPOSITION 65A: WARNING: Cancer &  
Reproductive Harm: 2009, 05/03/2010, 05/10/12



[unirac.com/labels](http://unirac.com/labels)

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

[www.unirac.com](http://www.unirac.com)



**253030U**

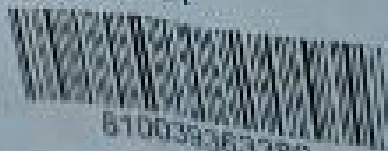
SFM ATTACHED SPLICE 8"

Pack Size: 10

WO/PO# : 0044373-00

Manufacture date:

Factory Code : 010A



810039363386

**ALLIED'S**

- ■ ■ Fulling price will include shipping and handling charges.
- ■ ■ Fulling price refers to IQ Combiner only. Shipping up.



# IQ Combiner 4

Photovoltaic  
Combiner Box  
X-IQ-AM1-240-4



**Electrical ratings**

Voltage 240VAC, 60Hz  
DG Breakers 80A MAX (combined)  
DG Inputs 64A MAX (combined)  
Output 65A MAX, 90A MAX feeder OCPD  
Temperature 45°C MAX ambient

For DG breaker, use only Eaton BR series.



202308092201

P/N:



S/N:

202308092201



883-00356 25

Dedicated solar and DG Combiner Box - do not add loads  
10 AMP or 15 AMP IQ Gateway Breaker not used for backfeed

Connection	Wire sizes	Torque
DG Breaker (1, 2, 3, 4)	14-10 AWG	2.2 Nm (20 lb-in)
	8 AWG	2.8 Nm (25 lb-in)
60A Circuit Breaker only	6-4 AWG	3.0 Nm (27 lb-in)
	4-1/0 AWG	5.0 Nm (45 lb-in)
IQ Gateway Breaker	14-10 AWG	2.26 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)
	10-4 AWG	5.0 Nm (45 lb-in)
	3-2/0 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 DG Breakers larger than 20A, use wire insulated for 90°C based on 75°C ampacities.

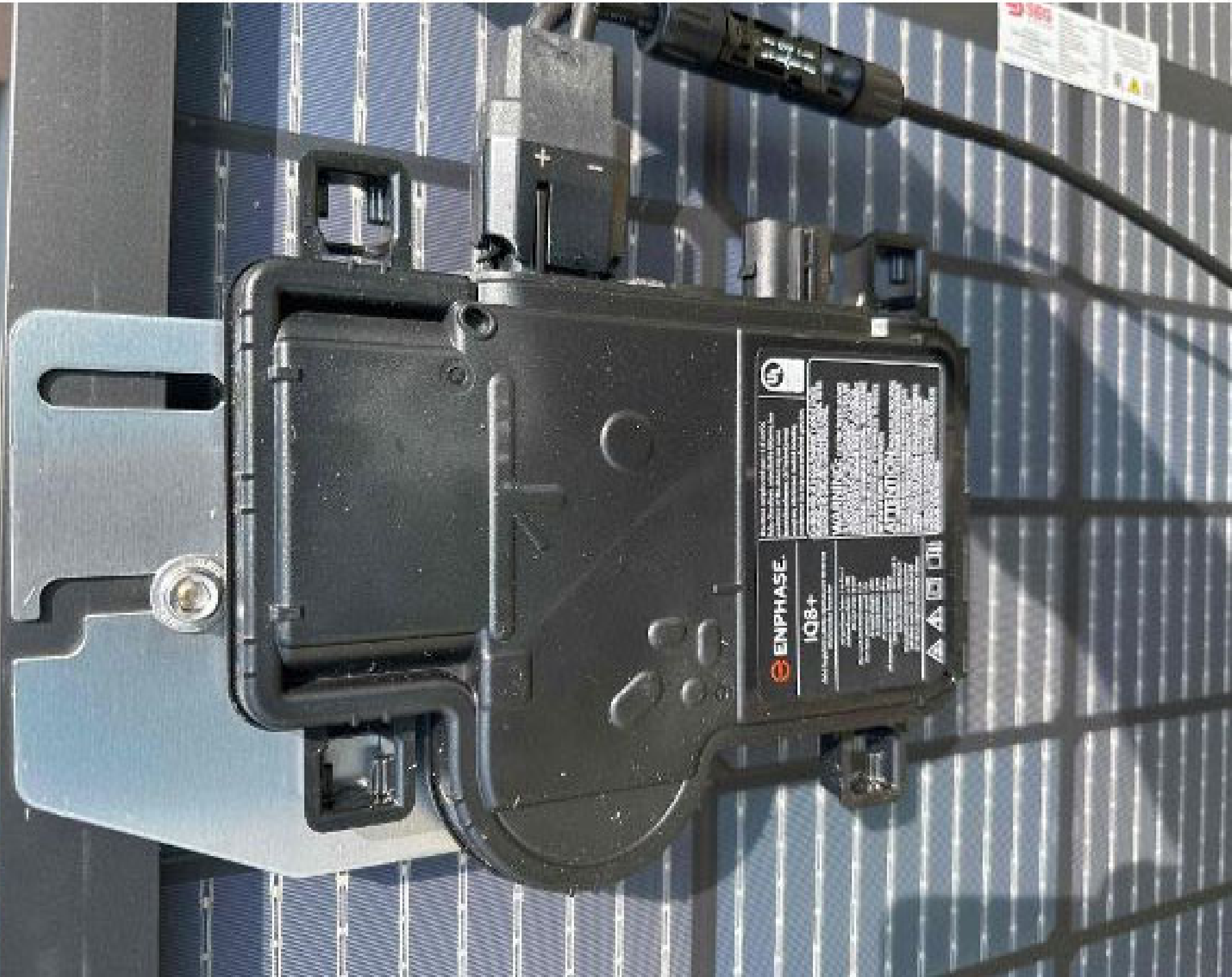
Designed in California and New Zealand  
Made in Mexico











For more information, visit [enphase.com](http://enphase.com).  
All rights reserved. © 2014 Enphase Systems, Inc.  
All other trademarks are the property of their respective owners.

**ENPHASE**  
**IQ8+**  
All rights reserved. © 2014 Enphase Systems, Inc.

**WARNING:** This device is not to be used in conjunction with a solar panel array unless it is properly installed and configured. Improper installation or configuration can result in fire, electric shock, or death. Always follow the instructions provided in the installation manual. Do not touch the terminals or components of the device when it is powered on. The device is not to be used in conjunction with a solar panel array unless it is properly installed and configured. Improper installation or configuration can result in fire, electric shock, or death. Always follow the instructions provided in the installation manual. Do not touch the terminals or components of the device when it is powered on.

**ATTENTION:** This device is not to be used in conjunction with a solar panel array unless it is properly installed and configured. Improper installation or configuration can result in fire, electric shock, or death. Always follow the instructions provided in the installation manual. Do not touch the terminals or components of the device when it is powered on.



























WARNING: High Voltage  
Electrical Shock Hazard  
Do not touch the solar panels or  
wiring. The solar panels and  
wiring are energized and can  
cause severe electrical shock or  
death. Only qualified personnel  
should be allowed to work on  
the solar panels and wiring.  
© 2015 SunPower Corporation  
SunPower



Maxwell Electronics  
1000 Pacific Ave. #100  
San Francisco, CA 94109







15	DATE: 03/21/2025	TIME: 10:00 AM	BY: [Signature]	PROJECT: [Signature]	NO. OF SHEETS: 1	TITLE: [Signature]	DATE: 03/21/2025	TIME: 10:00 AM	BY: [Signature]	PROJECT: [Signature]	NO. OF SHEETS: 1	TITLE: [Signature]
----	------------------	----------------	-----------------	----------------------	------------------	--------------------	------------------	----------------	-----------------	----------------------	------------------	--------------------

**DESIGNER NOTES**

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NORTH CAROLINA ELECTRICAL CODE (NCEC).

**ELECTRICAL NOTES**

1. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NORTH CAROLINA ELECTRICAL CODE (NCEC).



1. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NORTH CAROLINA ELECTRICAL CODE (NCEC).

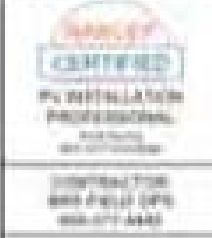
**INTERCONNECTOR NOTES**  
 1. THE FOLLOWING METHODS SHALL BE USED TO DETERMINE THE RATING OF BUSBARS: (1) WHERE THE SOLAR PANEL IS A PRIMARY POWER SOURCE AND THE OTHER POWER SOURCE IS LOCATED AT OPPOSITE ENDS OF A BUSBAR THE FOLLOWING SHALL BE THE SUM OF 125 PERCENT OF THE POWER SOURCE OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR SHALL NOT EXCEED 125 PERCENT OF THE CAPACITY OF THE BUSBAR.



UTILITY COMPANY: Duke Energy NC PERMIT ISSUER: Harnett County



1821 W. Research Way  
 Snow, VT 05057  
 802.253.1111  
 www.blueraven.com

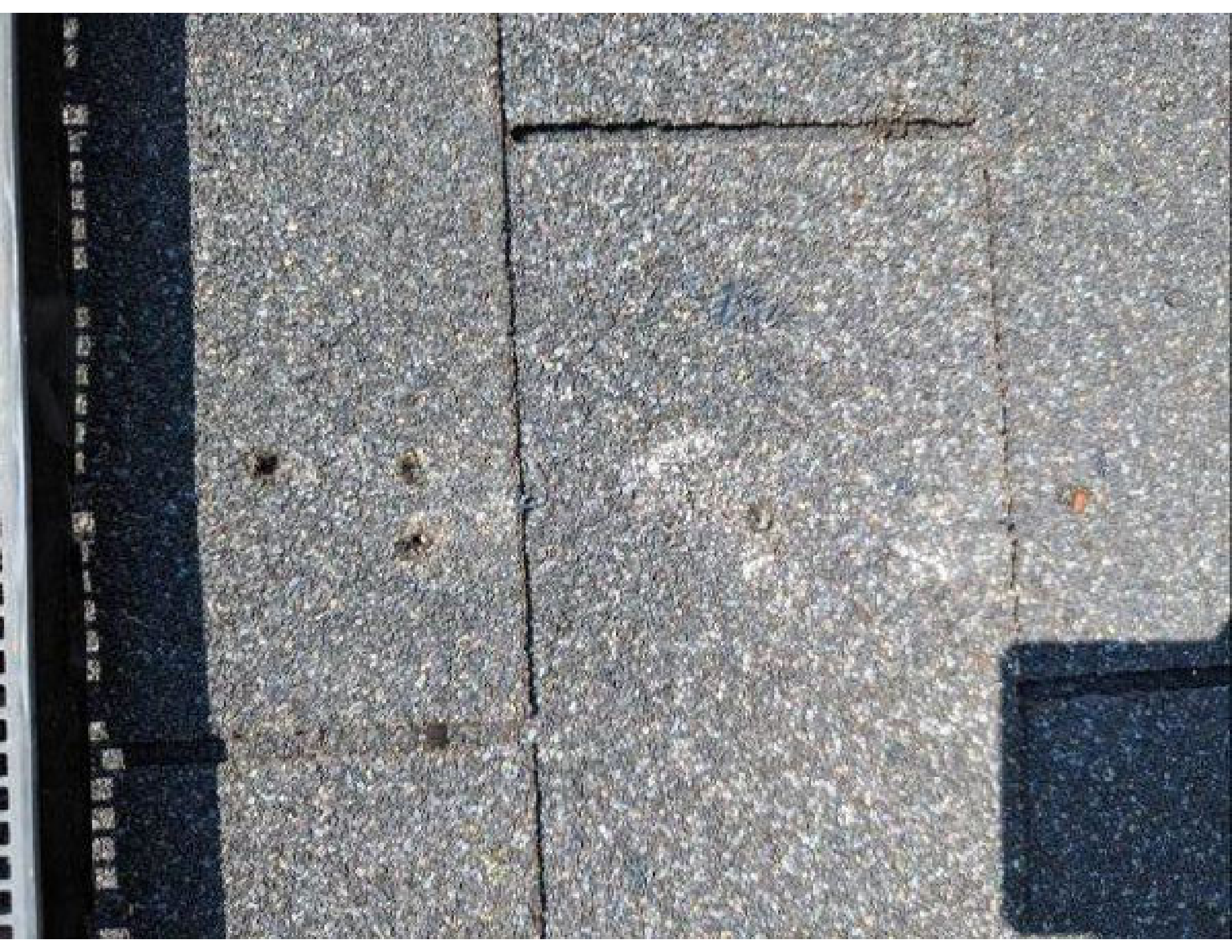


**CUSTOMER INFORMATION:**  
 Anthony Carlin  
 150 Main Street Way  
 Lincolnton, NC 28086  
 AC SYSTEM SIZE: 4.25 KW AC  
 DC SYSTEM SIZE: 6.075 KW DC

PermitCAD  
 March 21, 2025  
 735675

ELECTRICAL  
 0 PV5





AVE 360


**GENERAL DUTY SAFETY SWITCH**  
**INTERRUPTOR DE SEGURIDAD DE SERVICIO GENERAL**  
 20 A, 120 V AC, 1 P  
 2-40138-1-00

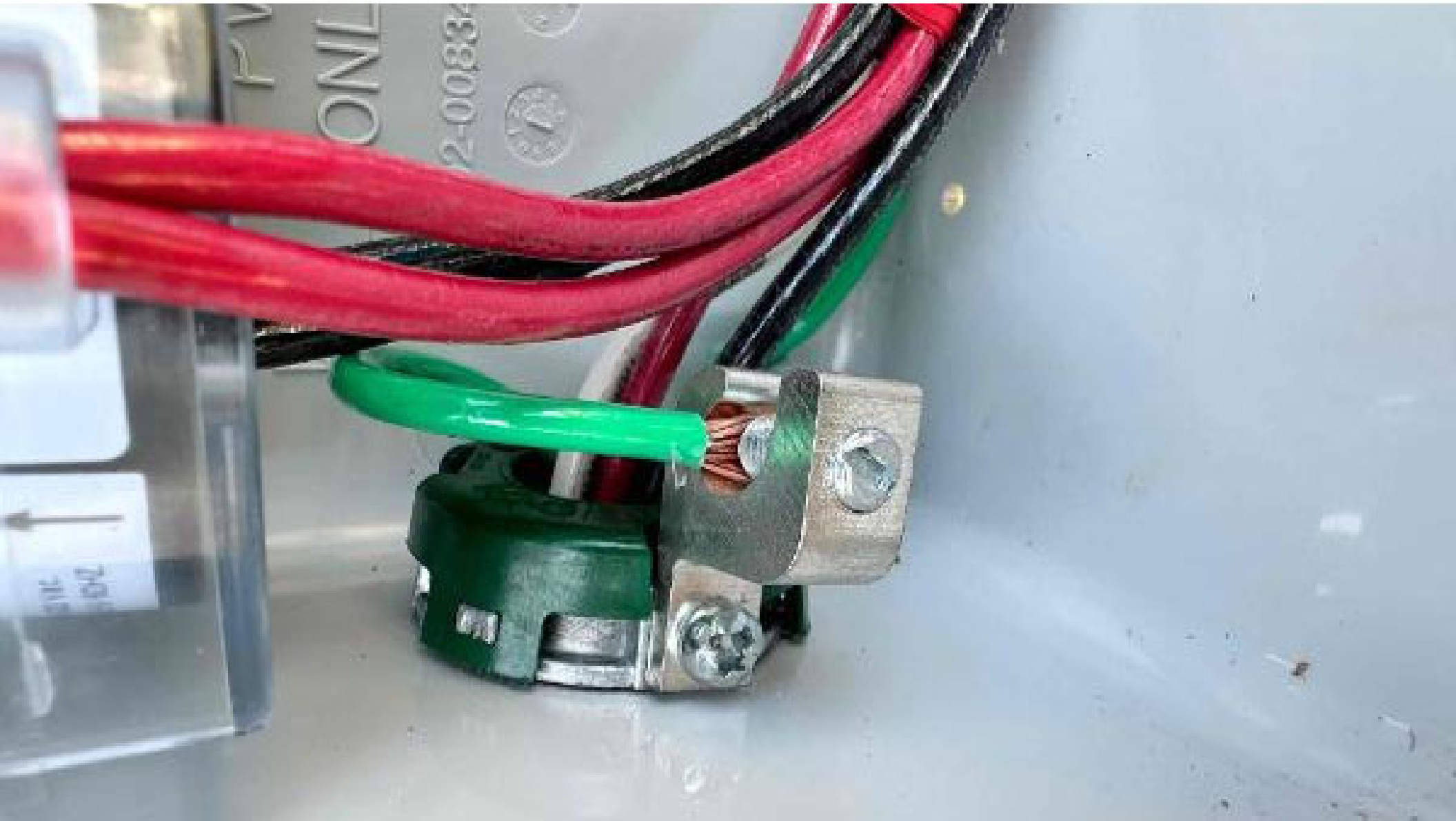
**⚠ DANGER / PELIGRO**  
 WARNING: This device is not to be used for applications where the load is not intended to be switched. See the instructions for application restrictions.

**⚠ DANGER / PELIGRO**  
 WARNING: This device is not to be used for applications where the load is not intended to be switched. See the instructions for application restrictions.

**ON** | **OFF**

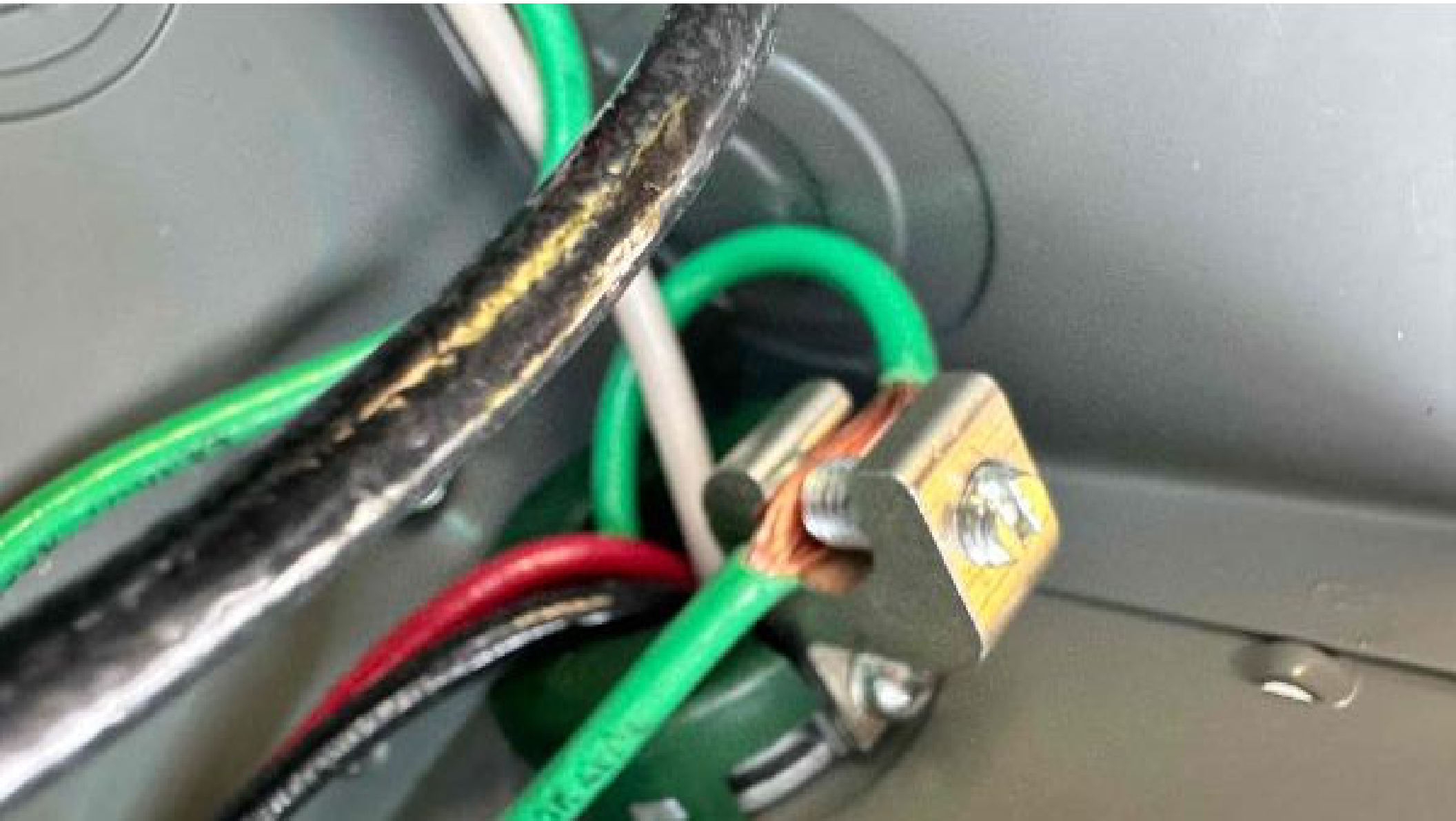






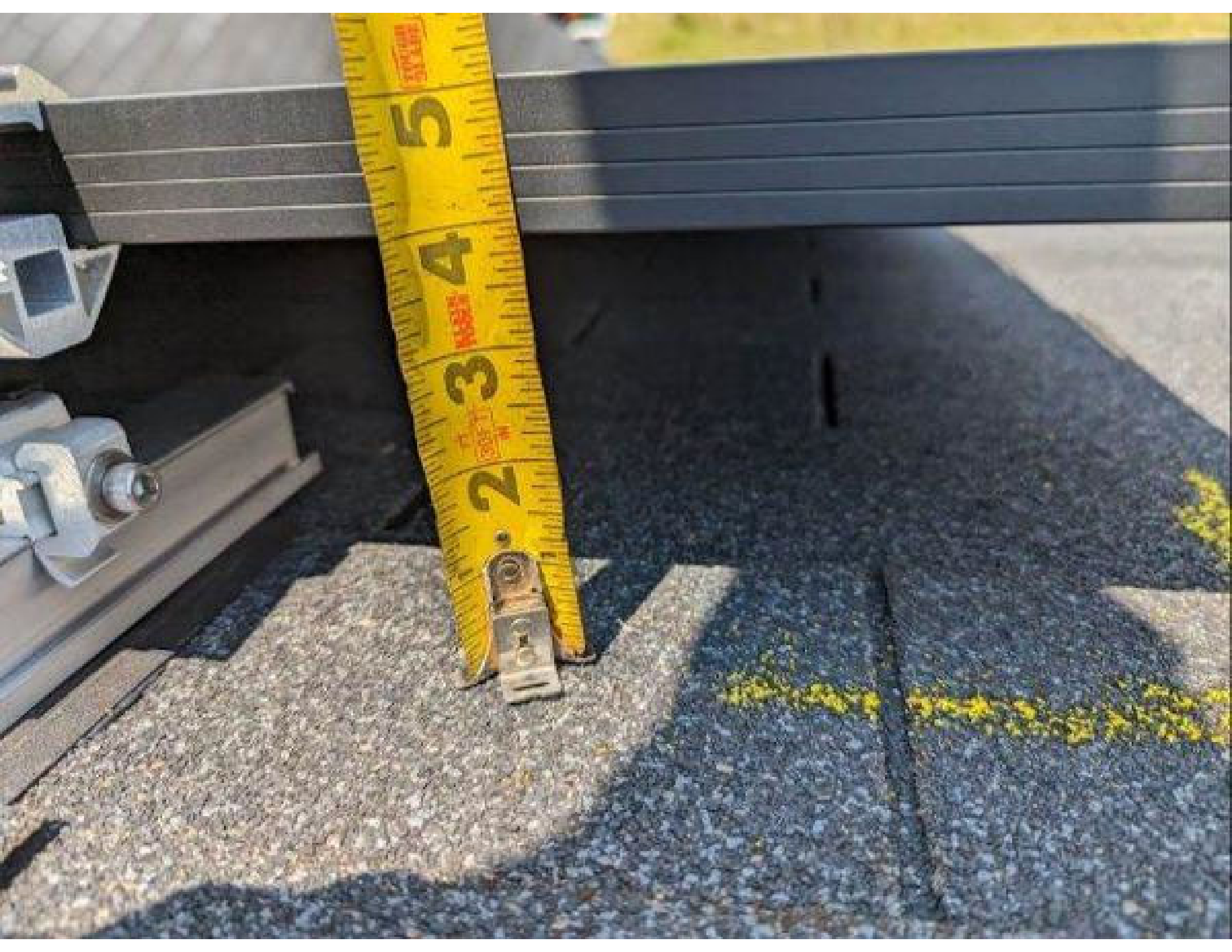














**UNIRAC** SM **INFINITY RACKING**  
FOR MOUNTING AND GROUNDING SOLAR SYSTEMS  
201701 11/2017



101



CERTIFIED

SAFETY LISTED  
E-4866080

840-00388-16  
250VAC 20A  
+79°C 2210

THIN/THIN 600V

THIN/THIN 600V



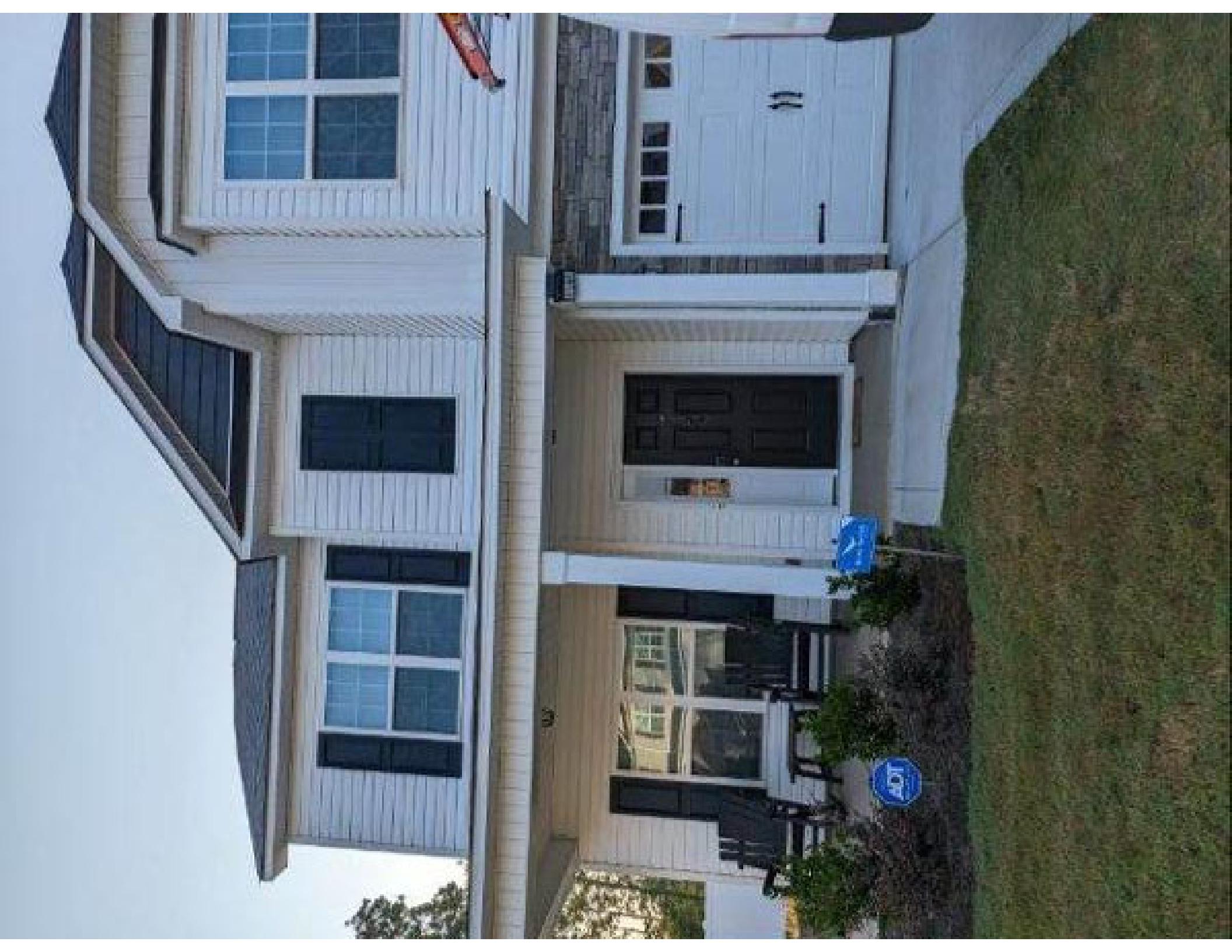












11

Designated Competent Person – Fill out this portion of the form

**\*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

Nearest Urgent Care (circle one)	<b>Betsy Johnson Hospital</b>
Nearest Emergency Room:	<b>500 Tilghman Dr., Dunn, NC 28724</b>
Safety Contact:	<b>James Jones (252) 268-1327</b>
Additional Notes:	

**Workers**

Compensation Provider: Berkshire Hathaway Homestate Companies  
Berkshire Hathaway Address: PO Box 881716, San Francisco CA 94188  
Berkshire Hathaway Fax Number: (800) 661-6054  
Berkshire Hathaway Policy Number: BLWC226029 (OR, FL) - BLWC225838 (all other states)  
Blue Haven Fax Number: (855) 458-608

Report Injury



Customer Name:

*Anthony Lubana - Davis*

Address:

*190 Riley Court way  
Greer, North Carolina 28946*

Designated Competent Person:

*Davis Davis*



BLUE RAVEN

SOLAR

Version: 0.2

Installation Date:

*6/9/23*

Activity	Hazards	Steps to Mitigate	Confirm
Climbing Ladders	Fall Hazards	<input checked="" type="checkbox"/> Ladder stands/boomwre installed <input checked="" type="checkbox"/> Secured with ladder strap	<input checked="" type="checkbox"/> Inspected for damage <input checked="" type="checkbox"/> Set up at a 4:1 Ratio Initial <i>Y.S.</i>
Working over 6'	Falls from roofs Falls from walls	<input checked="" type="checkbox"/> Harness/Tape/Anchor/SLLS inspected <input checked="" type="checkbox"/> Anchor points installed correctly <input checked="" type="checkbox"/> 100% tie-off over 6'	<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 <i>Y.S.</i>
Work in high (85'-95') to extreme (100'+) heat	Heat stress/heat exhaustion/heat stroke Sunburn	<input checked="" type="checkbox"/> Awareness - quality system/ breaks when necessary <input checked="" type="checkbox"/> Hydration (water available)	<input checked="" type="checkbox"/> Electrolytes Initial <i>Y.S.</i>
Working within the RAZ	Struck by hazard (falling objects)	<input checked="" type="checkbox"/> Everyone within RAZ wearing hardhats	<input checked="" type="checkbox"/> All four sides of RAZ enclosed Initial <i>Y.S.</i>
Electrical work	Electrical Shock/Electrocution Arc Flash	<input checked="" type="checkbox"/> Arc flash PPE: CATS (shirts, pants, safety glasses, face shield, boots, earplugs, electrically insulated gloves within 12" of exposed live components, CATS arc flash gloves within 3' of electrical parts)	Initial <i>Y.S.</i>
Other general hazards	Struck by flying objects (nails) Cut hazards Ergonomic hazards (strains) Other hazards	<input checked="" type="checkbox"/> Safety glasses worn at all times <input checked="" type="checkbox"/> Cut-A gloves worn at all times <input checked="" type="checkbox"/> Proper lifting techniques/ team lifting	<input type="checkbox"/> Steps to mitigate (specify) Initial <i>Y.S.</i>

Crew Members

Name

Crew Lead

*Yusuf Abdullahi Ibrahim  
D. Williams*

Signature

*Yusuf Abdullahi Ibrahim  
D. Williams*

Date

*6/9/23*