





Trina solar

 L01220200623267

Trina solar
 TSM-390DE09.05



Maximum Power	(P _{max})	390W *
Maximum Power Voltage	(V _{mp})	33.8V
Maximum Power Current	(I _{mp})	11.54A
Open Circuit Voltage	(V _{oc})	40.8V *
Short Circuit Current	(I _{sc})	12.14A *
Maximum Series Fuse		25A
Power Selection		0 ~ +5W
Module Application		Class A
Maximum System Voltage		IEC1500V/UL1500V

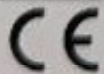
*Considering LID, the power range of the certification authority, tolerance (P_{max} ±7%, (V_{oc}) ±3%, (I_{sc}) ±4%)
 Electrical Rating At STC AM=1.5 (IRRADIANCE=1000W/m² Temp. =25°C)

For field connections, use minimum 4mm²(No. 12AWG)copper wires insulated for a minimum 90°C



WARNING-ELECTRICAL HAZARD
 This module produces electricity when exposed to light.
 Follow all applicable electrical safety precautions.

- Module Fire resistance rating Class C (for CSA C22.2 No 61730) and module fire performance Type 2 for UL61730
- System Fire Class Rating: See installation instructions for Installation Requirements to Achieve a Specified System Fire Rating with this Product (Classe nominale du système contre l'incendie : Voir les instructions d'installation)
- See module literature for appropriate mating connectors. (Voir la documentation du module concernant les connecteurs appropriés)



EN 50720 COMPLIANT



Product Data
 Module type TSM-390
 200875
 Rev. 002 | For UL 61730
 20A C22.2 No. 61730

www.trinasolar.com

Assembled in Vietnam

--- Flushing given when software upgrade in progress
 --- Flushing error when IQ software is loading up

ENPHASE.

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




Electrical ratings

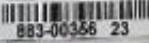
Voltage 240VAC, 60Hz
 DG Breakers 80A MAX (combined)
 DG Inputs 64A MAX (combined)
 Output 65A MAX, 50A MAX feeder OCPD
 Temperature -46°C MAX ambient
 For DG breaker, use only Eaton BR series.


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P/N:

S/N:


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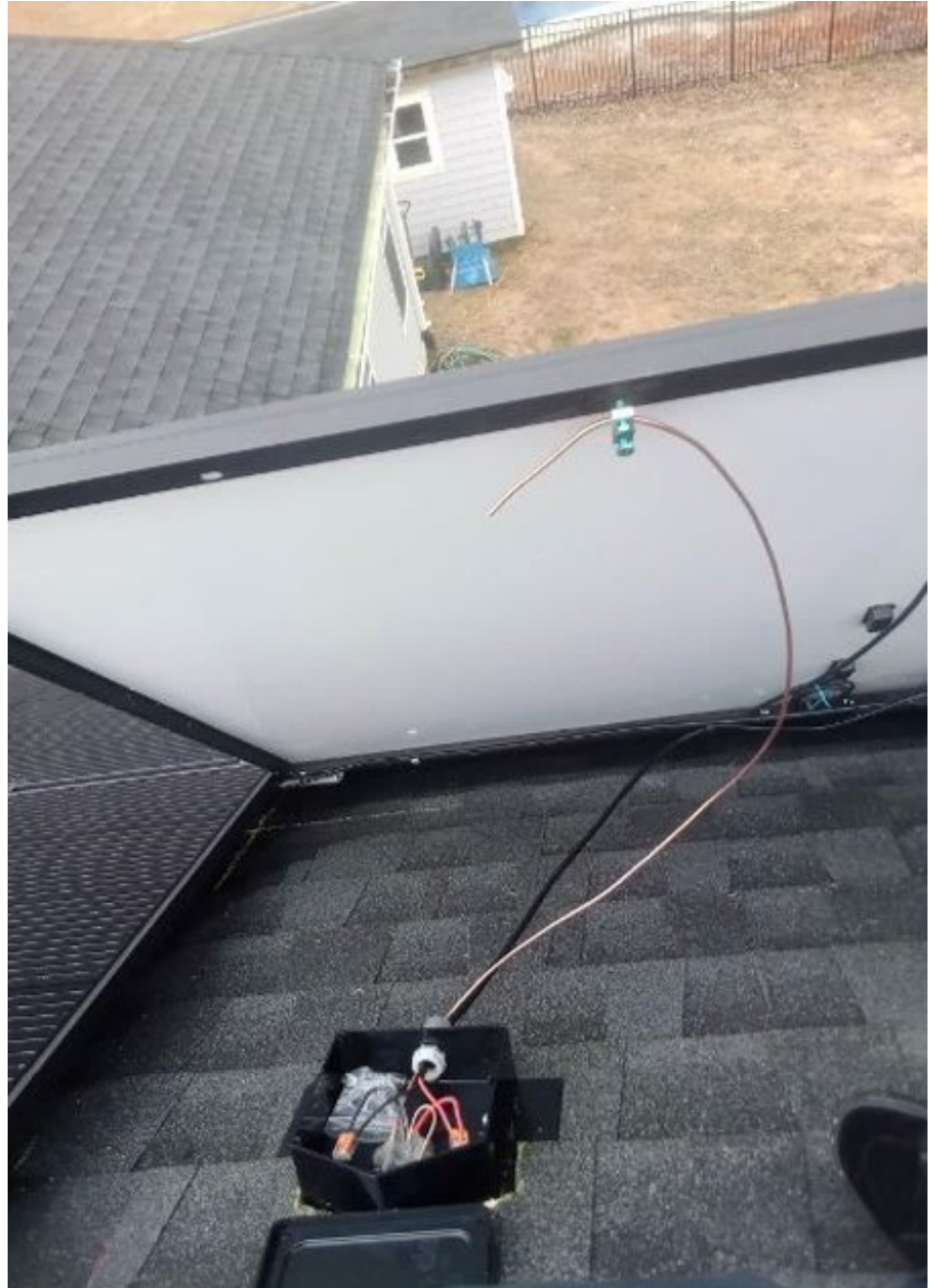
Dedicated solar and DG Combiner Box - do not add loads
 10 AMP or 15 AMP IQ Gateway Breaker not used for backfeed

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)	
	6-4 AWG	3.0 Nm (27 lb-in)	
60A Circuit Breaker only	1-1/0 AWG	5.0 Nm (45 lb-in)	
IQ Gateway Breaker	14-10 AWG	2.26 Nm (20 lb-in)	
Neutral and ground	Large screw	2-1/0 AWG	5.6 Nm (45 lb-in)
		14-3 AWG	5.1 Nm (45 lb-in)
	Small screw	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)	
	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 25A, use wire insulated for 90°C
 based on 75°C ampacities.

Designed in California and New Zealand
 Made in Mexico







ENPHASE

IQ8+
Grid Support Utility Interactive Inverter
Multiconverter Inverter

Off-grid/Power Factor: 1.00 (0.9) ±1
On-grid/Power Factor: ±0.95
AC Input Voltage: 208 V
Max. input short-circuit current: 15 A
Max. input continuous current: 13 A
AC Output Voltage: 240 V
AC Output Current: 1.21 A
AC Output Frequency: 60 Hz
AC Output Power (max. continuous): 295 W
Operating Temperature: -40 °C to 140 °C
Ingress Protection: IP65 (Type 2)
Photovoltaic Rapid Shutdown Compliant
NEC 690.13 and CEC 1.01-1.8.4-2.18
UL 1741 SA Compliant / Approved 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.



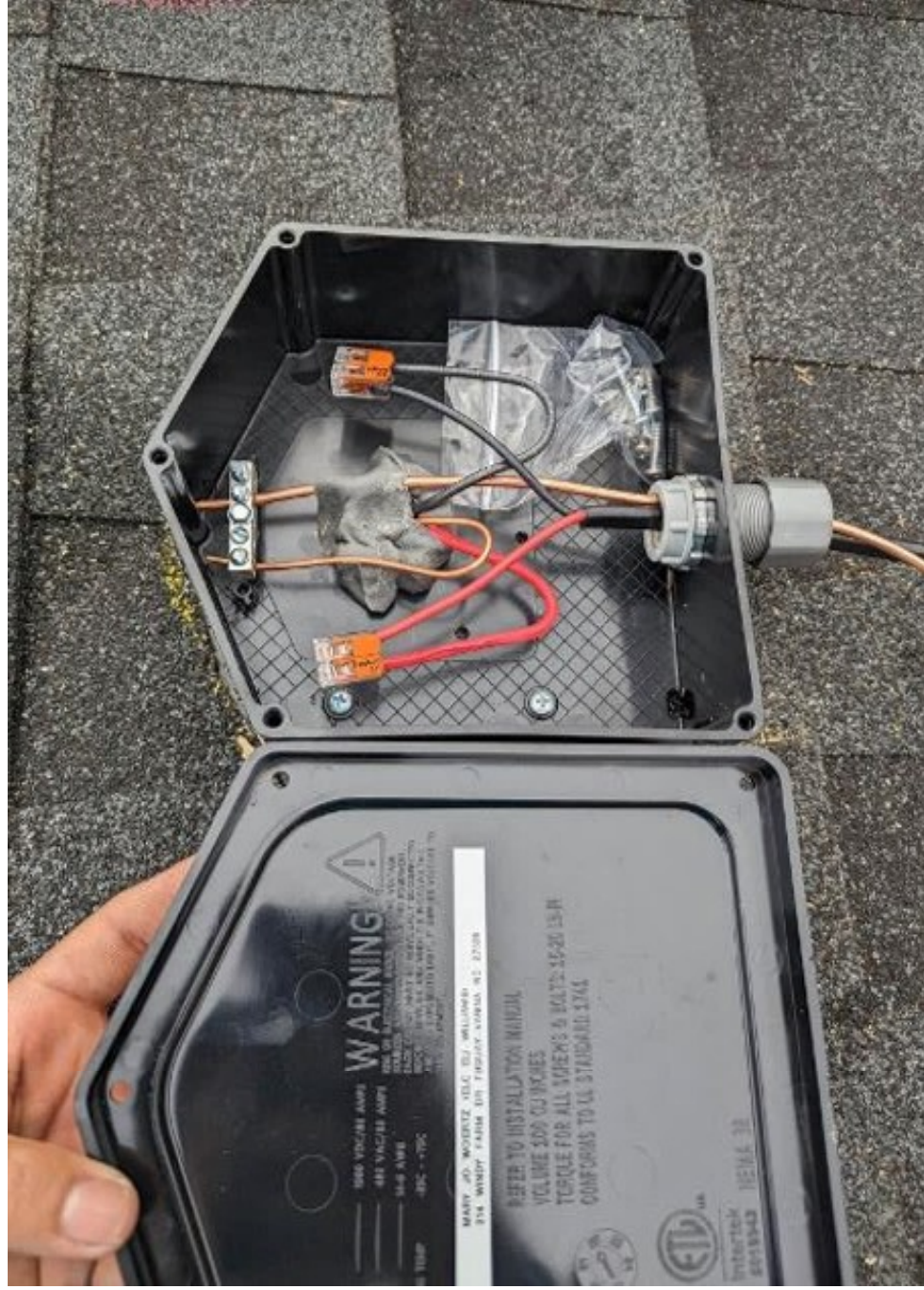
CAUTION: RISK OF SHOCK. IMMEDIATELY STOP IF COVER REMOVED. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: ELECTRIC SHOCK HAZARD. DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED. AC AND DC VOLTAGE SOURCES TERMINATE INSIDE THIS EQUIPMENT. DISCONNECT FROM BEFORE SERVICING. PHOTOVOLTAIC ARRAY SUPPLIES A DC VOLTAGE TO THIS EQUIPMENT WHEN EXPOSED TO LIGHT. HOT SURFACES. TO REDUCE THE RISK OF BURNS - DO NOT TOUCH.

ATTENTION: RISQUE DE SECOURS ÉLECTRIQUE. LES CONDUCTEURS DE CE SYSTÈME PHOTOVOLTAÏQUE NE SONT PAS RELIÉS À LA TERRE ET PEUVENT ÊTRE SOUS TENSION DES SOURCES DE TENSION CA ET CC SONT CONNECTÉS À CET APPAREIL. SOUS LES USAGES SOLAIRES, LE PHOTOVOLTAÏQUE EST EXPOSÉ À LA LUMIÈRE. RISQUE DE BRÛLURE. NE PAS TOUCHER.












Job Hazard Analysis


BLUE RAVEN


Customer Name: **Cliff Wollaco**
 Installation Date: **12/8/22**
 Address: **537 Park Dr Sanford, North Carolina 27392**

Hazard Category	Potential Hazards	Hazard Controls
Ladder Safety	<ul style="list-style-type: none"> Displacement Defective Electrocution 	<i>Prohibit use</i>
Fall Protection	<ul style="list-style-type: none"> Fall from 6' or greater 	<i>Safety harness</i>
Electrical Safety	<ul style="list-style-type: none"> Electrocution ARC flash 	<i>Insulated tools</i>
Heat & Related Issues	<ul style="list-style-type: none"> High Heat - 85° to 99° Extreme Heat 100° or higher 	<i>Hydrate frequently, provide shaded area</i>
Public Protection	<ul style="list-style-type: none"> Falling object Slip/Trip/Fall 	<i>Restrict Barricade</i>
Nearest Hospital:	Central Carolina Hospital	
Safety Contact:	1135 Carriage St. Sanford, NC 27390	
Additional Notes:	James Jones (252) 802-1327	
	Crew Members	
	Name	Signature
	James Jones	<i>[Signature]</i>
	John Williams	<i>[Signature]</i>
	John Williams	<i>[Signature]</i>
	John Williams	<i>[Signature]</i>

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, proceed to a medical provider for treatment, and scan the QR code below to complete an injury/incident Report form.

Please request a Work Status Update and provide the information below for any visits to the Emergency Room or Urgent Care.

Workers Compensation Provider: Berkshire Hathaway Homestate Companies
 Berkshire Hathaway Address: PO Box 881716, San Francisco CA 94188
 Berkshire Hathaway Fax Number: (800) 661-6984
 Berkshire Hathaway Policy Number: BLWC226029 (OR, FL) - BLWC225838 (all other states)
 Blue Raven Fax Number: (385) 456-408







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 A
 20.0k A
 240 V

MINIMAL OPERATING AC VOLTAGE V

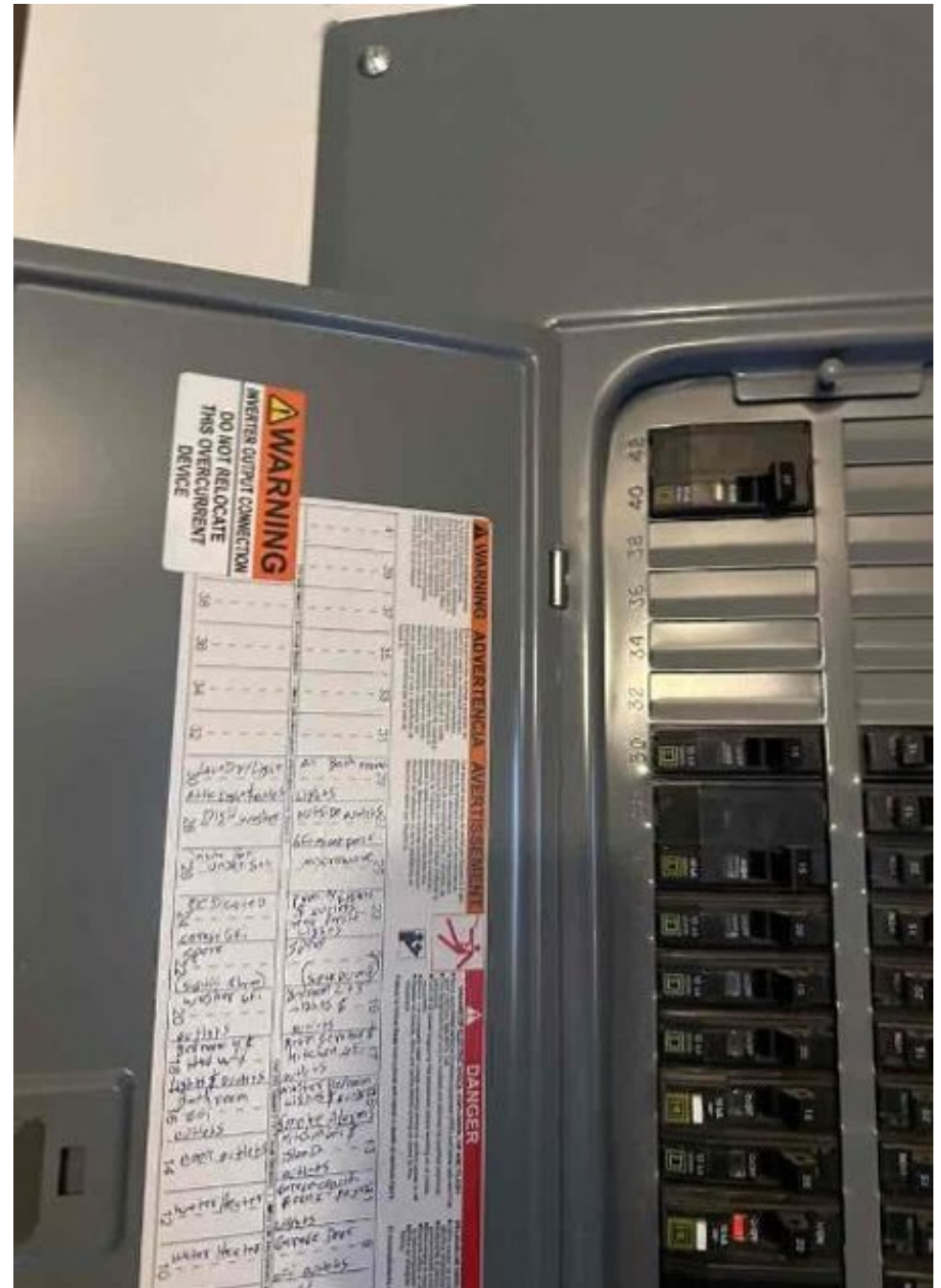
WARNING

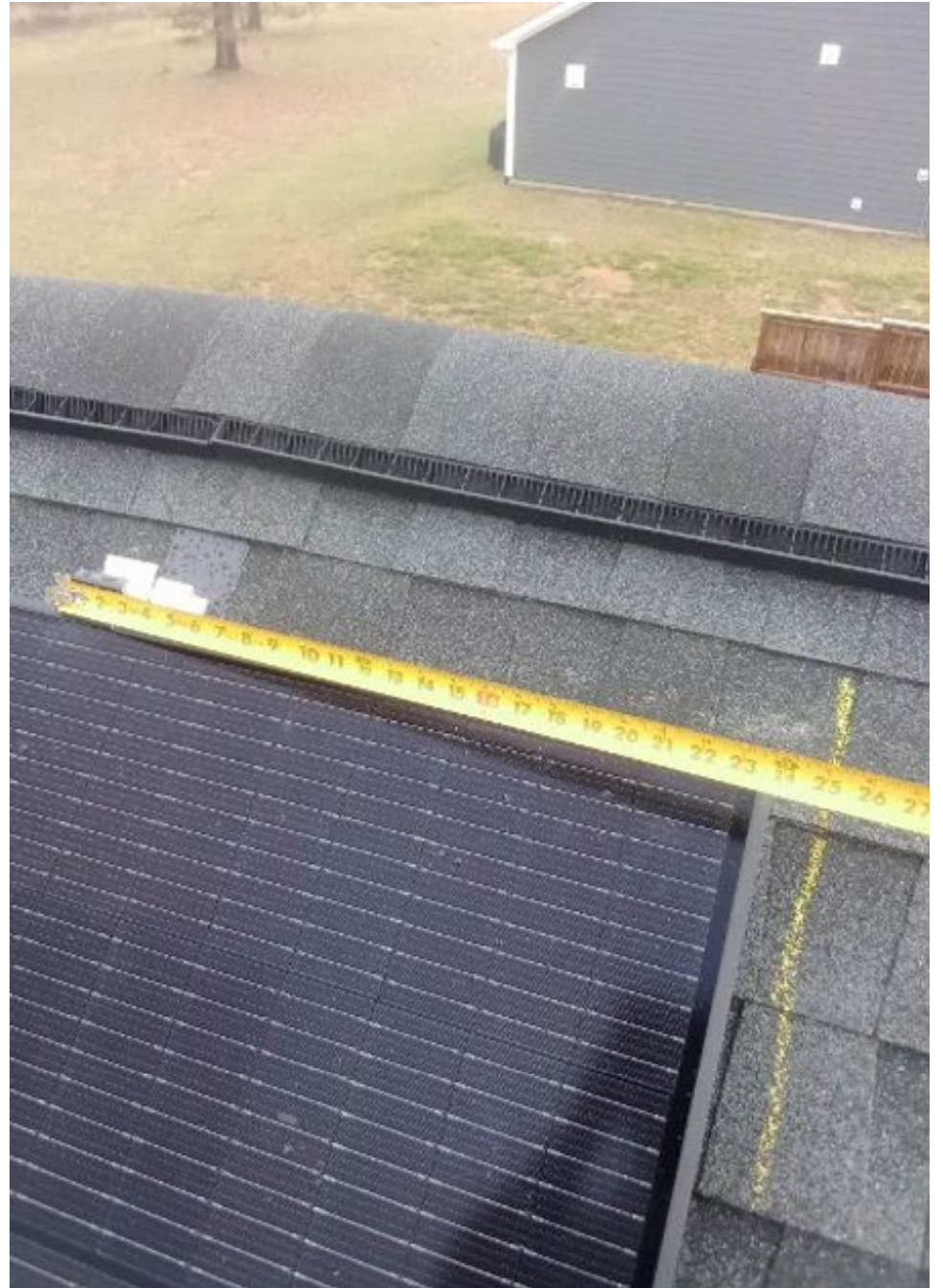
DUAL POWER SUPPLY

**SOURCES: UTILITY GRID AND
 SOLAR ELECTRIC SYSTEM**

WARNING

POWER TO THIS BUILDING IS ALSO
 SUPPLIED FROM MAIN DISTRIBUTION
 BY AC DISCONNECT LOCATED

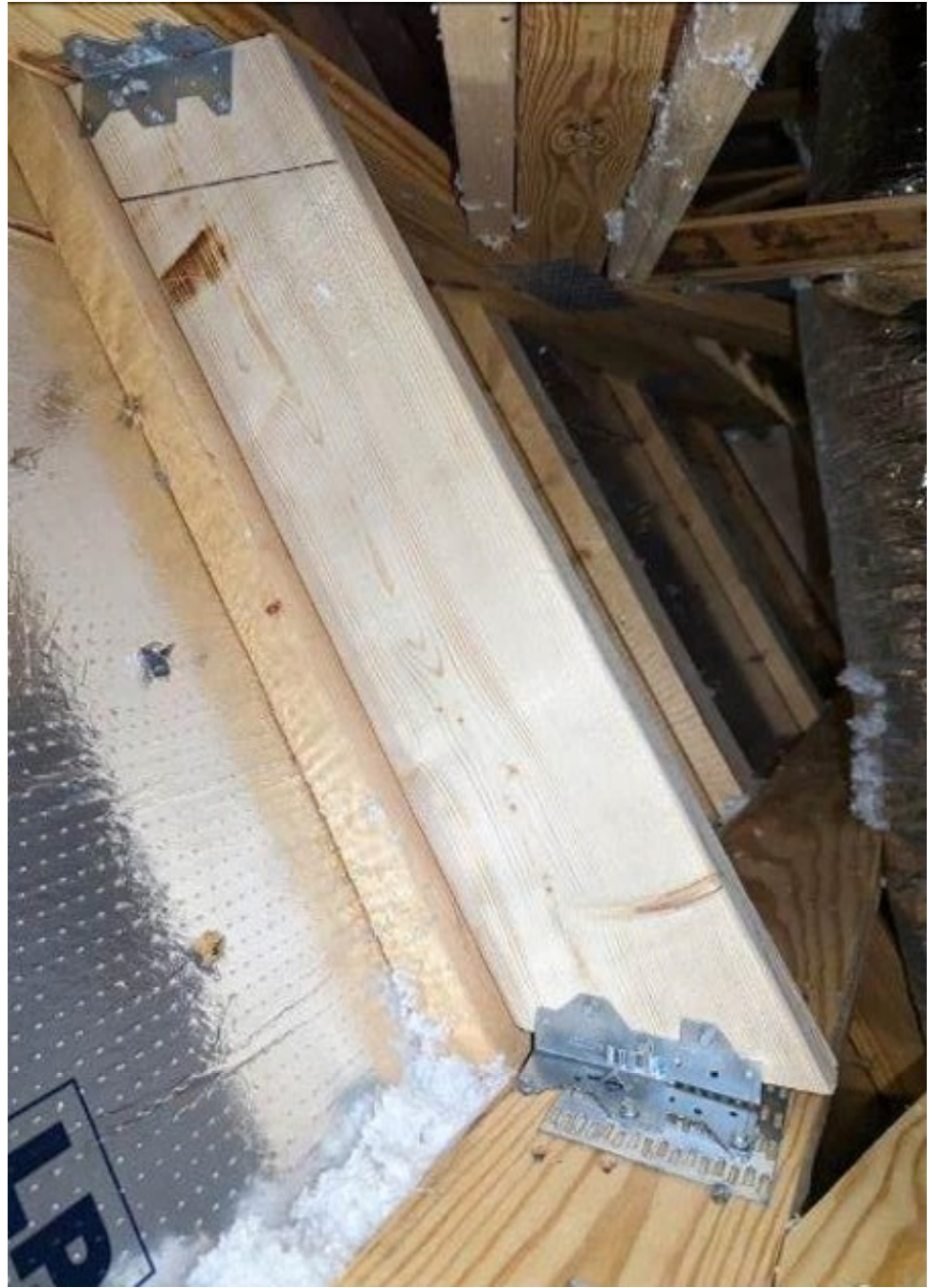


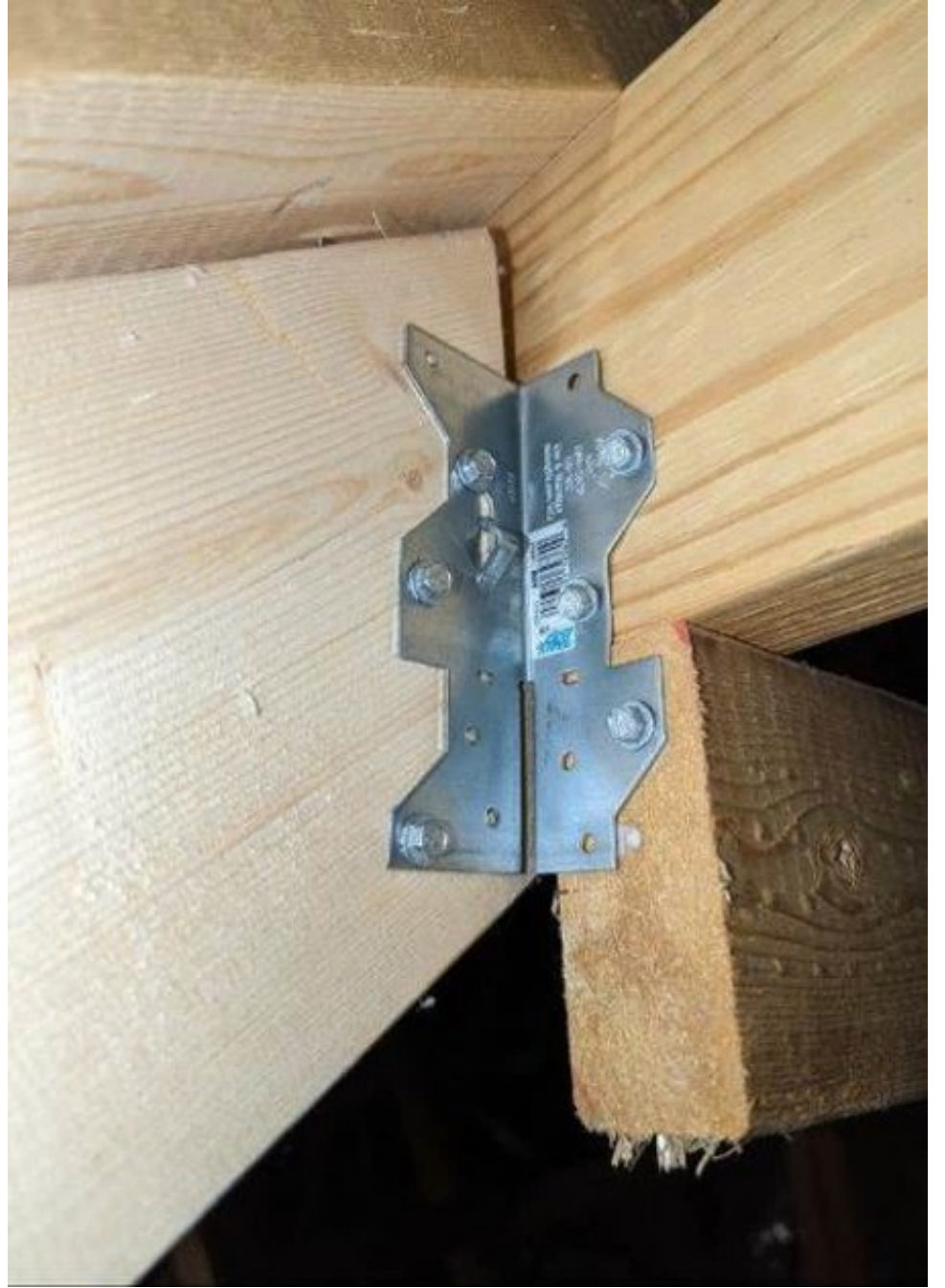


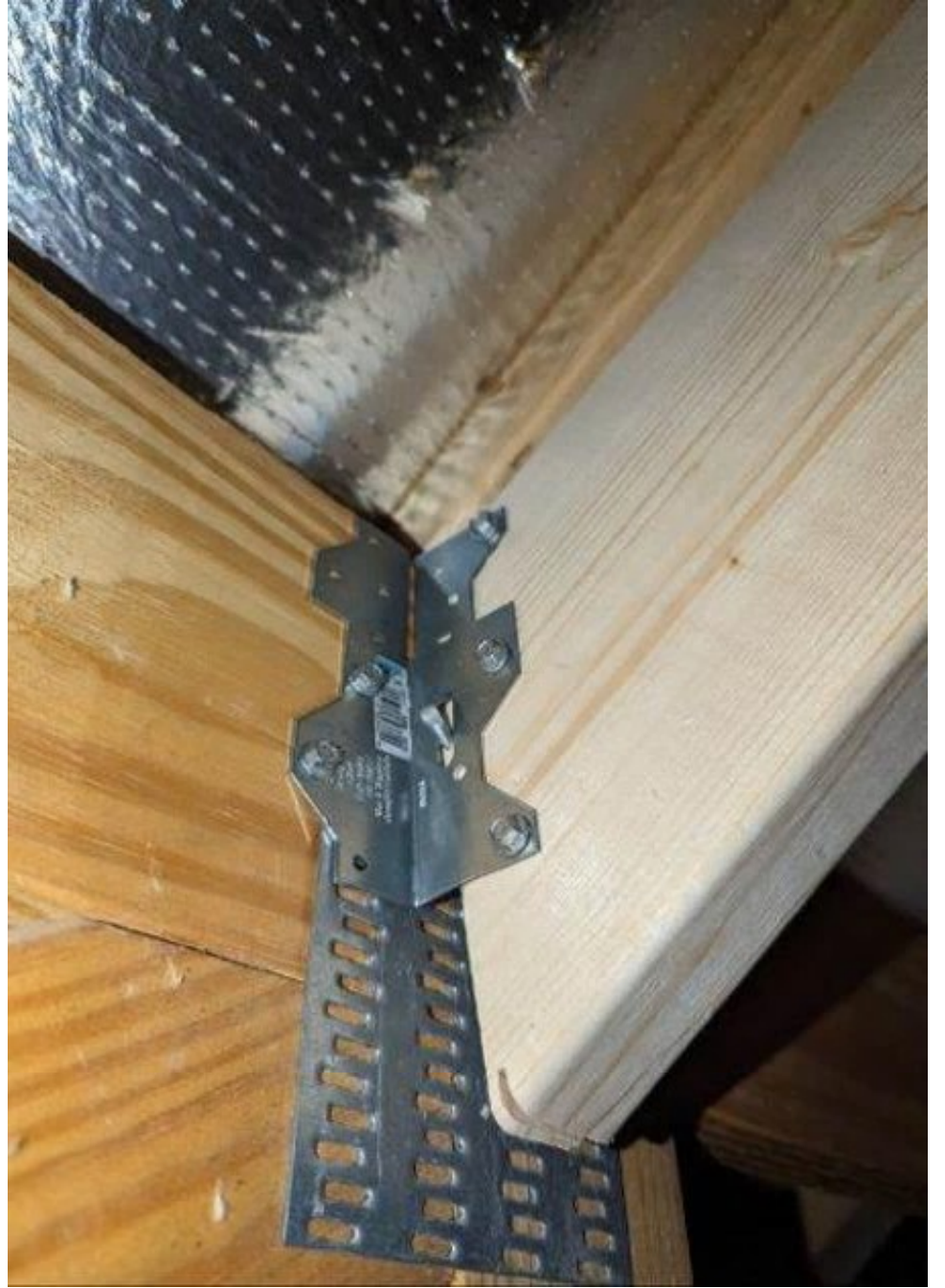




















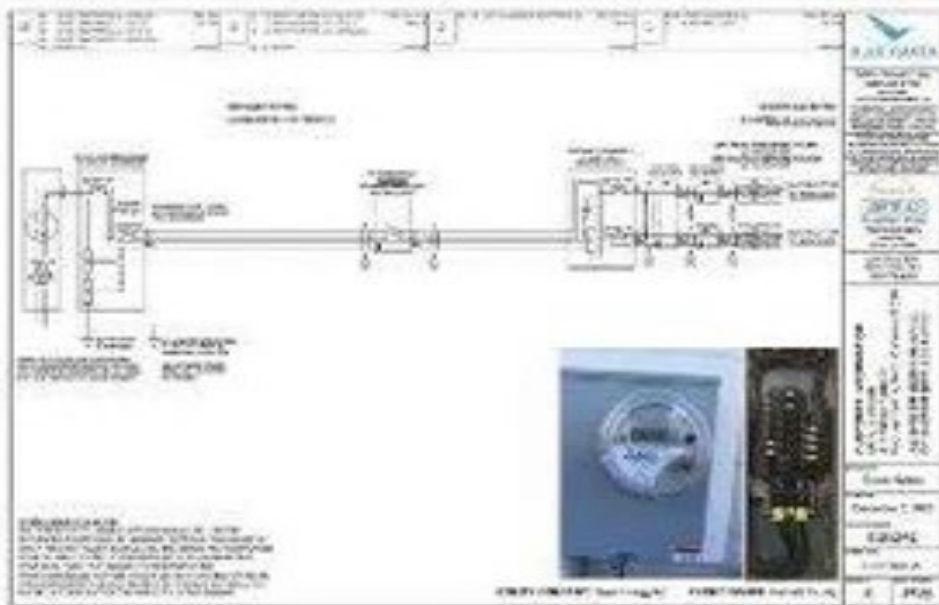
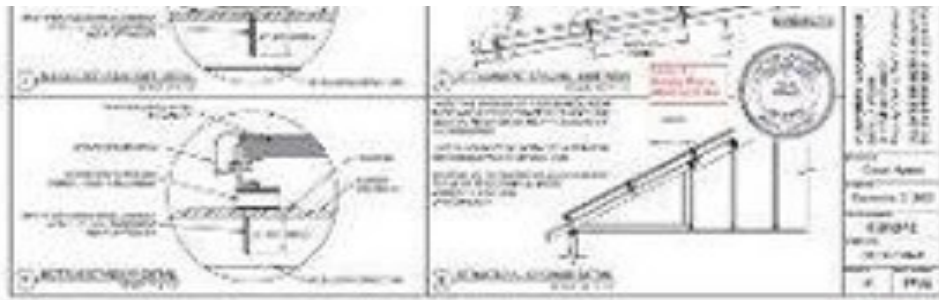












GENERAL INFORMATION		PROJECT INFORMATION	
Project Name	...	Project No.	...
Client	...	Location	...
Contract No.	...	Scale	...
Design No.	...	Date	...
Revision No.	...	Author	...
Checked By	...	Approved By	...
Design Date	...	Issue Date	...
Design Status	...	Design Stage	...
Design Description	...	Design Notes	...
Design Details	...	Design Specifications	...
Design Materials	...	Design Standards	...
Design References	...	Design Sources	...
Design Comments	...	Design Remarks	...
Design Observations	...	Design Recommendations	...
Design Conclusions	...	Design Final Remarks	...















