



## IQ Gateway

202305052399

### IQ Microinverters & Array

- ✓ Scanned
- ✓ Detected
- ✓ Communicating
- ✓ Array created
- ⚠ Producing power

38/38

38/38

38/38

1

0/38

### ⚠ Profile set

(Please wait for grid profiles to propagate to all IQ Microinverters).

13/38 (IEEE 1547:2018)

PJM v2.2019Q4:1.2.7)

[Add site notes and pictures](#)

### Unsynced Items

Media

0

Project

0

### Sync Settings

Sync on Wifi only

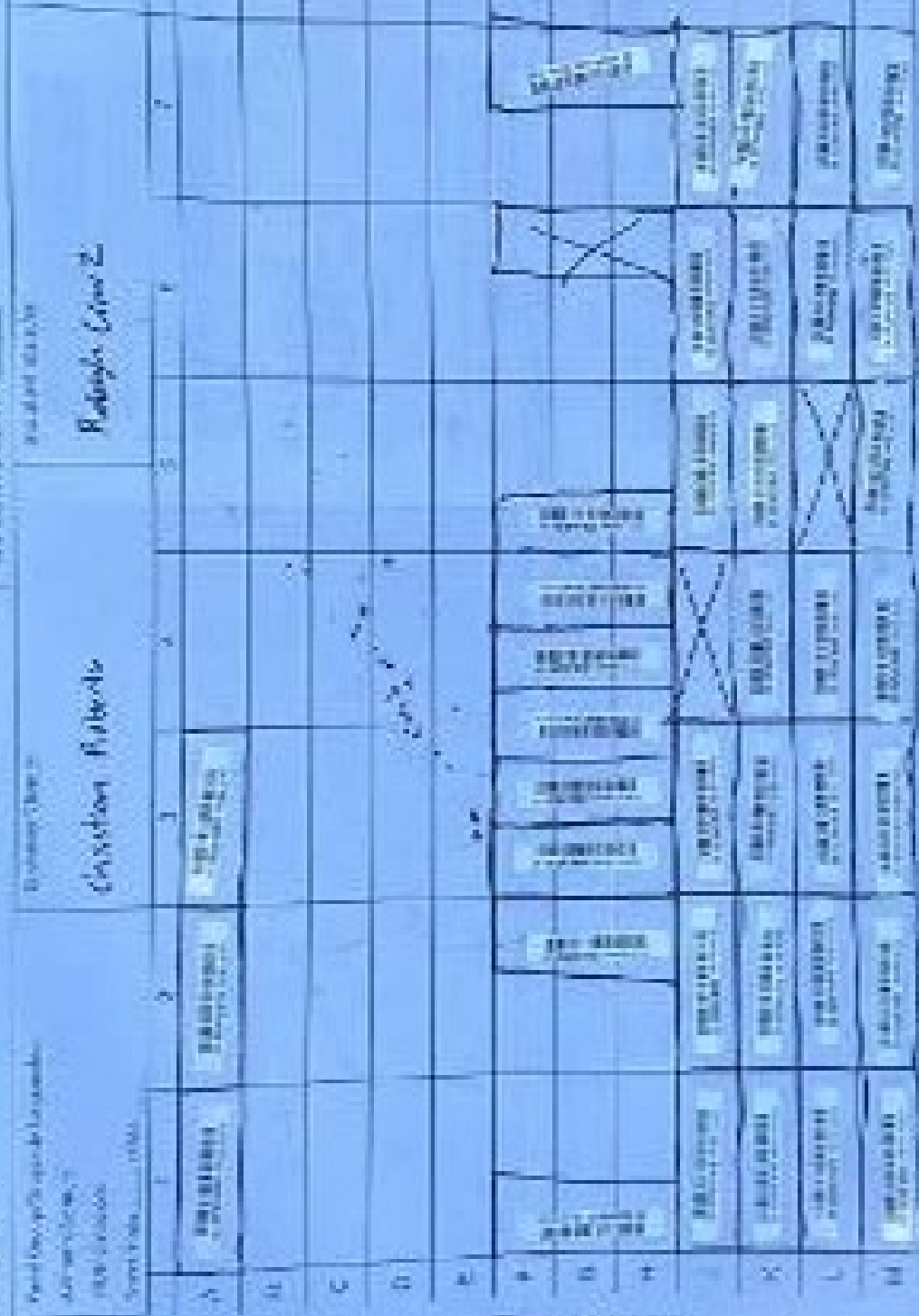
OFF

[Having trouble syncing?](#)

**UNIT 25 MAP**

Print this map for use in the classroom.  
 All rights reserved.  
 www.ck12.org

← East of A is north



Continuum Subjects

Reading Level 2

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← North of A is north

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**WARNING**  
This device contains hazardous materials. Handle with care. Do not touch the components. See the user manual for more information.



# ENPHASE.

## IQ Combiner 4

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



MAX



### Electrical ratings

Voltage 240VAC, 60Hz  
 DG Breakers 80A MAX (combined)  
 DG Inputs 64A MAX (combined)  
 Output 65A MAX, 90A MAX feeder OCPD  
 Temperature 46 °C MAX ambient  
 For DG breaker, use only Eaton BR series.

  
202305052399

S/N:

  
202305052399

P/N:

  
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		2.36 Nm (20 lb-in)
Neutral and ground	Large screw	3.6 Nm (45 lb-in)
	Small screw	5.1 Nm (45 lb-in)
		6 AWG
	8 AWG	2.6 Nm (23 lb-in)
	10-14 AWG	2.3 Nm (20 lb-in)









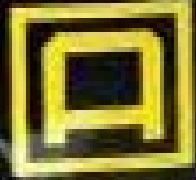




**⚠ WARNING**  
**DUAL POWER SUPPLY**  
SOURCES: UTILITY GRID AND  
PV SOLAR ELECTRIC SYSTEM



**RAPID SHUTDOWN  
SWITCH FOR  
SOLAR PV SYSTEM**



EGLEWEE DR

**GENERAL DUTY  
SAFETY SWITCH  
INTERRUPTOR DE  
SEGURIDAD DE  
SERVICIO GENERAL**

60 A  
240 Vac / V-



**⚠ DANGER / PELIGRO**

**HAZARD OF ELECTRICAL SHOCK, FIRE, EXPLOSION, OR ARC FLASH  
PELIGRO DE DESCARGA ELÉCTRICA, EXPLOSIÓN O  
DETONACIÓN POR ARQUEO**

Read instructions carefully prior to use. Improper use may result in fire, explosion, or electrical shock. See page 2 for details.

This equipment must only be installed in a location by qualified electrical personnel.

Never connect energized wires with bare hands. Use proper safety techniques.

Turn off power before servicing. Lockout/Tagout is required for safe maintenance.

Always use a safety rated voltage testing device at all times and lockout tags to verify safety at all times.

Turn off energy including earth fault, fault clearing, and other safety devices. Do not use equipment for any purpose other than intended.

Failure to follow steps in order may result in death or serious injury.

SEE USER MANUAL FOR COMPLETE INSTRUCTIONS.

**⚠ AC DISCONNECT ⚠  
PHOTOVOLTAIC SYSTEM**

**A 60 A  
V 240**  
**RATED AC OUTPUT CURRENT  
NOMINAL OPERATING AC VOLTAGE**

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

**⚠ WARNING**  
**POWER TO THIS BUILDING IS ALSO  
SUPPLIED FROM MAIN DISTRIBUTION  
UTILITY DISCONNECT LOCATED**  
In the Garage

PHOTOVOLTAIC SYSTEM  
AC DISCONNECT

**⚠ WARNING**  
DUAL POWER SUPPLY

**ELECTRIC SHOCK HAZARD**  
DO NOT TOUCH TERMINALS  
UNLESS YOU ARE THE LICENSED-CERTIFIED  
ELECTRICIAN RESPONSIBLE FOR THE SYSTEM

OPERATING VOLTAGE: **720V** VOLTS  
OPERATING CURRENT: **10A** AMPS

**⚠ WARNING**

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

**⚠ WARNING**

PHOTOVOLTAIC SYSTEM  
CONTAINER PANEL

DO NOT ADD LOADS

**⚠ WARNING**  
REPLACE THIS LABEL IMMEDIATELY AFTER THE  
WORK IS COMPLETED TO CLEARLY IDENTIFY  
THE PHOTOVOLTAIC SYSTEM TO THE  
ELECTRICIAN RESPONSIBLE FOR THE SYSTEM

 ENPHASE



PHOTO-VOLTAIC SYSTEM  
AC DISCONNECT  
**WARNING!**  
Do Not Touch  
Electric Parts Unless  
Qualified Personnel  
Perform the Work

**SOLAR PV SYSTEM EQUIPPED  
WITH RATED SHUTDOWN**



For the life of the system, the PV system must be able to safely shut down the PV array in the event of a fire or other emergency. The system must be able to shut down the PV array within the time specified in the applicable code.

**WARNING**  
Do Not Touch  
Electric Parts Unless  
Qualified Personnel  
Perform the Work

Model	Serial	Year
1000	123456789	2023
1000	987654321	2023
1000	112233445	2023
1000	556677889	2023
1000	998877665	2023
1000	443322110	2023
1000	009988776	2023
1000	665544332	2023
1000	221100998	2023
1000	887766554	2023



20 20  
On/I On/I  
CIRCUIT 1

CIRCUIT 1

20 20  
On/I On/I  
CIRCUIT 2

CIRCUIT 2

15 15  
On/I On/I  
CIRCUIT 3

CIRCUIT 3

20 20  
On/I On/I  
CIRCUIT 4

20 20  
On/I On/I  
CIRCUIT 5

**WARNING**  
WIRE IQ GATEWAY L1 AND L2 TO  
IQ SYSTEM CONTROLLER 2 FOR  
IQ ORD FORMING SYSTEMS  
- INSTRUCTIONS IN CHG

EMPHASIS MOBILE TOOLING

 **WARNING**

**ELECTRIC SHOCK HAZARD**

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







**250 ft indoor**  
Copper Building Wire



**250 ft indoor**  
Copper Building Wire



SELD

SELD

NIM-B 10/2

NIM-B 10/2



















# Start Provisioning Devices

IQ Gateway 202305052399



IQ Gateway successfully connected to Emphase Cloud and Installer Toolkit

## IQ Gateway Connectivity Status



Wi-Fi



Ethernet



Cellular



Software up-to-date









378° COVER

2121483









L/ON

80

O/OFF

10 kA  
200V



15

O/OFF

10 kA  
200V



**FUSION**  
Type: 10 kA 200V  
10 kA 200V  
10 kA 200V  
10 kA 200V

**FUSION**  
Type: 10 kA 200V  
10 kA 200V  
10 kA 200V  
10 kA 200V





















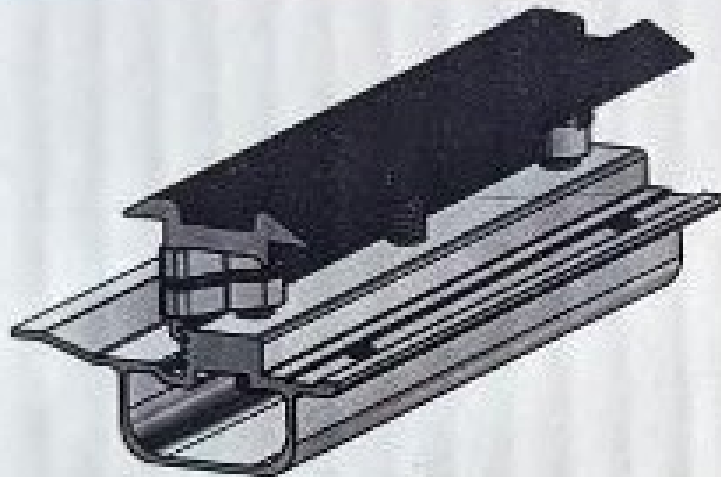
TECHSHIELD

11/15/2019 10:00 AM  
11/15/2019 10:00 AM

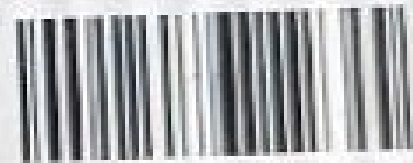


**UNIRAC**<sup>®</sup>  
.com  
 BETTER SOLAR STARTS HERE

# 30MM SPLICE 6.5" SFM



**253010U**



PACKAGE QTY: 10 EA  
 WO/PQ#: 0045726-01  
 MANUFACTURE DATE: 06/2022  
 FACTORY CODE: 026A



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

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



BETTER SOLAR STARTS HERE

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



253030U

SFM ATTACHED SPLICE 8"

Pack Size: 10

WO/PO# : 0045419-01

Manufacture date: JAN 17

Factory Code : 010A



8 10039 36118 4

















WARNING

15

CAUTION: DO NOT TOUCH THE WIRING OR TERMINALS. ALL WIRING IS TO BE DONE BY A LICENSED ELECTRICIAN.









WARNING: Electrical shock hazard. Always disconnect power before working on this device. © 2008 UL

UL LISTED  
CONFORMS TO UL 508 CLASSIFICATION





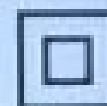
SEG Solar Inc.  
Add: 973 Isom Road, San Antonio,  
TX 78216 USA  
[www.segsolar.com](http://www.segsolar.com)

System Fire Class Rating: See installation manual  
Made in Thailand

Module Type:	SEG-405-SMD-TB
Rated Maximum Power: Front	405W
Power Sorting:	B <sub>1</sub> +A <sub>1</sub> H
Current at P <sub>max</sub> : Front	13.10A
Voltage at P <sub>max</sub> : Front	30.91V
Short-Circuit Current: Front	13.70A
Open-Circuit Voltage: Front	37.22V
Weight:	21.5kg
Dimensions:	1733 x 1134 x 30mm
Maximum System Voltage:	1500V
Maximum Series Fuse Rating:	25A
Cell Technology:	Mono-Si
Fire Rating:	Type 1

Power Production Tolerance:	±3%
Short-circuit Current Tolerance:	±4%
Open-circuit Voltage Tolerance:	±2%

All technical data measured at STC:  
1000W/m<sup>2</sup>, AM1.5, 25°C  
PV Module Classification: Class 0









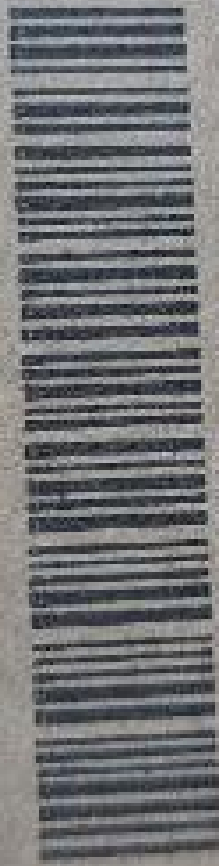






LINFRAC





**FLASHKIT SFM TRIM S**

**004201D**

**FLASHKIT SFM TRIM S COMP DARK**

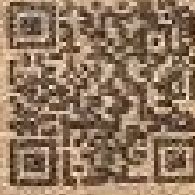
Packet Size : 10

Factory Code: 5-1



WCIPO# 9945324-00 Manufacture date: 1/20/22-3/20/22

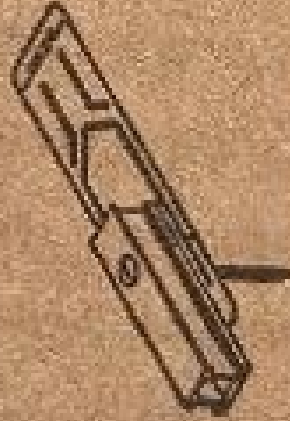
41003056212



# FLASHKIT SFM SLIDERS

004271D

FLASHKIT SFM SLIDER S COMP DRK  
DARK Pack Size : 10  
Factory Code: 5-1



WC/PC# 0045416-00 Manufacture date: 3/10/22-4/10/22

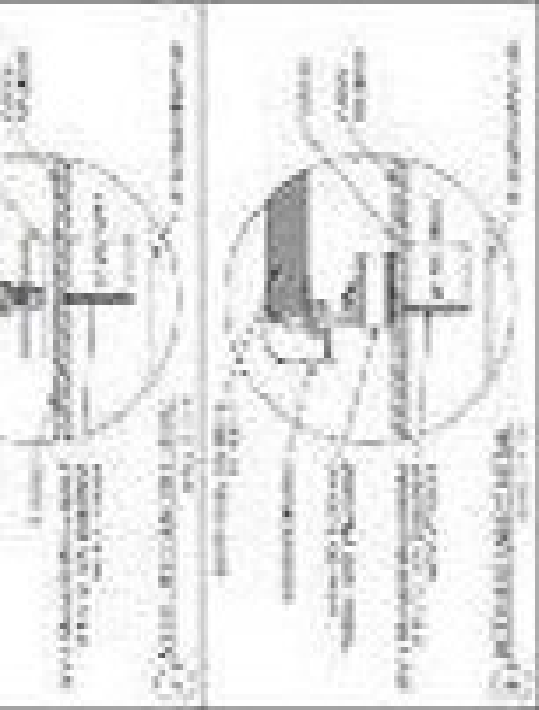
8 1 0039 36213 10











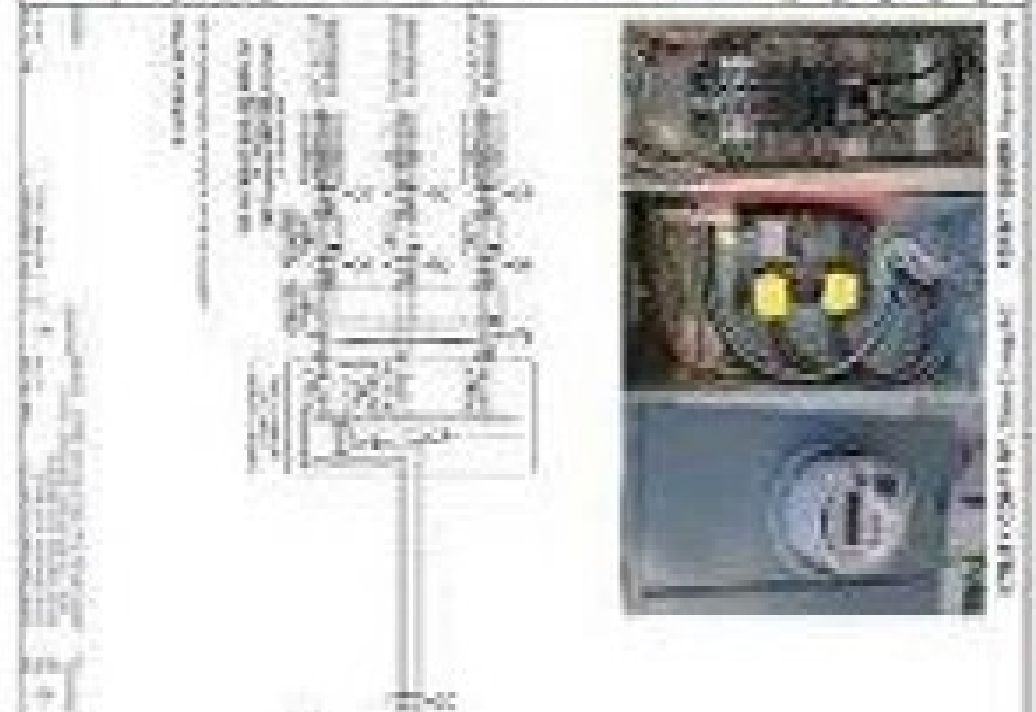
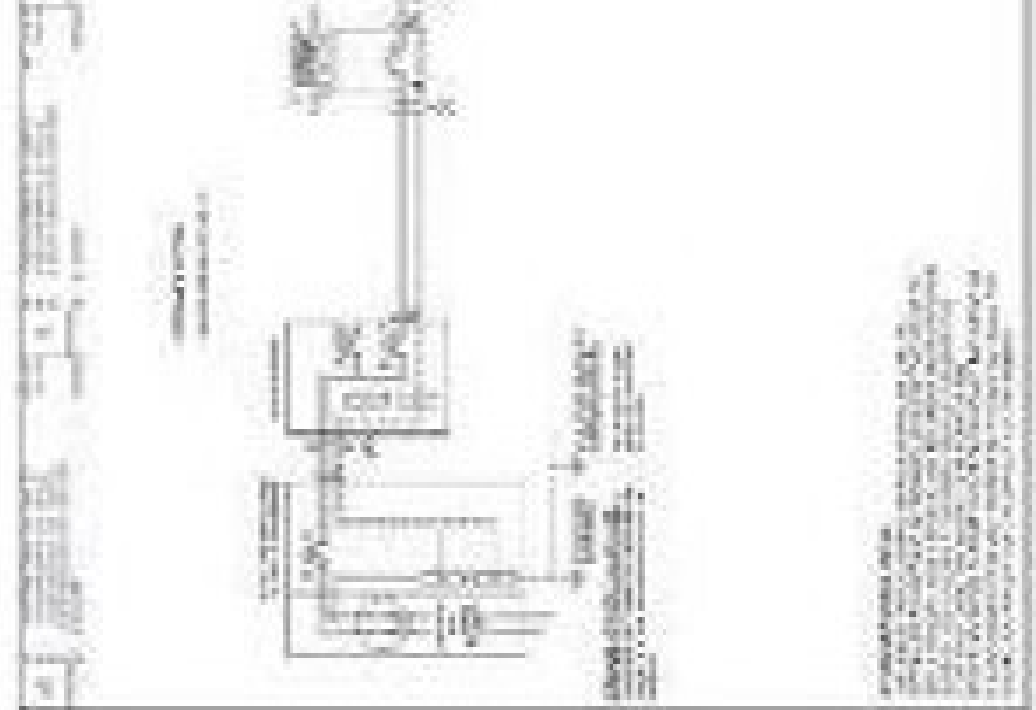
Water Treatment Tank

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Water Treatment Tank





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ALTIMA 14-2011

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FOR MOUNTING AND GROUNDING SOLAR SYSTEMS

UL1703, UL2783



**UNIRAC** SEM INFINITY RACKING  
FOR MOUNTING AND GROUNDING SOLAR SYSTEMS  
20170 18270



173



840-00388-16  
250VAC 20A  
+79°C 2208



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>Castel Harvett Hosp: 409 319 Brightwater Dr., L. Raleigh, NC 27546</b>
Nearest Emergency Room:	
Safety Contact:	<b>James Jones (252) 808-1327</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) 661-6984

Berkshire Hathaway Policy Number: BLWC226029 (OR, FL) - BLWC225838 (all other states)

Blue Raven Fax Number: (385)-498-408

Report Injury



### Job Hazard Analysis

Customer Name: **Christian Adams**

Installation Date: **5/11/23**

Address: **2600 S. of Highway 101, North Lakeport, CA 95666**  
 Authorized Competent Person: **Bill W. Brown**



Activity	Hazards	Steps to Mitigate	Confirm
Climbing Ladders	Fall Hazards	<input checked="" type="checkbox"/> Ladder stands/bulb horns installed <input checked="" type="checkbox"/> Secured with ladder strap <input checked="" type="checkbox"/> Inspected for damage <input checked="" type="checkbox"/> Set up at a 3:4 Ratio	Initial Y.B
Working over E	Falls from roofs Falls from stairs	<input checked="" type="checkbox"/> Harness/Rope/Anchor/SPRs inspected <input checked="" type="checkbox"/> Anchor points installed correctly <input checked="" type="checkbox"/> 100% tie off over E <input type="checkbox"/> Fall restraint in use <input checked="" type="checkbox"/> Fall arrest in use <input checked="" type="checkbox"/> Potential swing falls 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 type="checkbox"/> Electrolytes	Initial Y.B
Working within the RAZ	Struck by hazard (falling objects)	<input type="checkbox"/> Everyone within RAZ wearing hardhats <input checked="" type="checkbox"/> All four sides of RAZ enclosed	Initial Y.B
Electrical work	Electrical shock/Electrocution Arc Flash	<input checked="" type="checkbox"/> Arc flash PPE: CAT1 (shirts, pants, safety glasses, face shield, boots, earplugs, electrically insulated gloves within 18" of exposed live components, CAT1 arc flash gloves within 2' of electrical panel)	Initial Y.B
Other / general hazards	Struck by flying objects (nails) Cut hazards Ergonomic hazards (strains)	<input checked="" type="checkbox"/> Safety glasses worn at all times <input checked="" type="checkbox"/> Cut & gloves worn at all times <input checked="" type="checkbox"/> Proper lifting techniques/ team lifting	Initial Y.B
Other Tools:	Other hazards	<input type="checkbox"/> Steps to mitigate (specify)	Initial

Crew Members		Date: <b>5/11/23</b>
Name	Signature	
Crew Lead: <b>Yusef Abdullahi</b>	<b>Yusef Abdullahi</b>	
<b>Bill W. Brown</b>	<b>Bill W. Brown</b>	











6

5

4

3

2

MADE IN U.S.A.

MADE IN U.S.A.

NO. 1500  
12

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UL1793, UL9701





