





- ● ● Flashing green when software upgrade is in progress.
- ● ● Flashing amber when IQ Envoy is booting up.

 **ENPHASE.**

IQ Combiner 3 ES

Photovoltaic
Combiner Box
X-IQ-AM1-240-3-ES



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
 Use only Eaton BR series Breakers (60A max)

S/N:



122111050112

P/N:



880-00819 11

**Dedicated solar and DG Combiner Box - do not add loads TO AMP
 Envoy Breaker not used for backfeed**

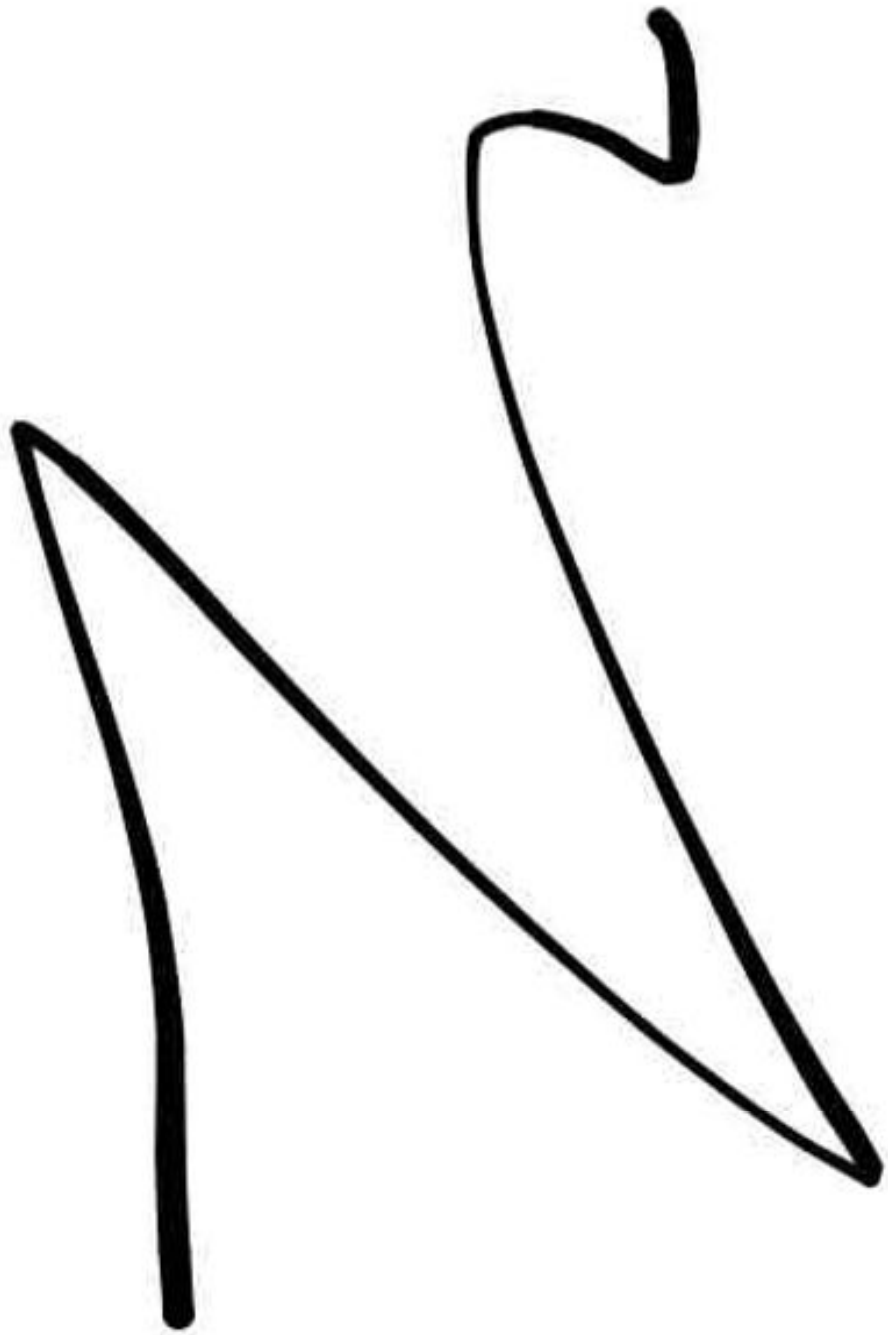
Connection	Wire size	Torque
DG Breaker	14-10 AWG	2.2 Nm (20 lb-in)
	8 AWG	2.8 Nm (25 lb-in)
	6-4 AWG	3.0 Nm (27 lb-in)
60A Circuit Breaker only	4-1/0 AWG	5.0 Nm (45 lb-in)
Neutral and ground		
Large screw	14-1/0 AWG	5.0 Nm (45 lb-in)
Small screw	6-14 AWG	2.7 Nm (23 lb-in)
Main lug	10-4 AWG	5.0 Nm (45 lb-in)
	2-2/0 AWG	5.5 Nm (50 lb-in)

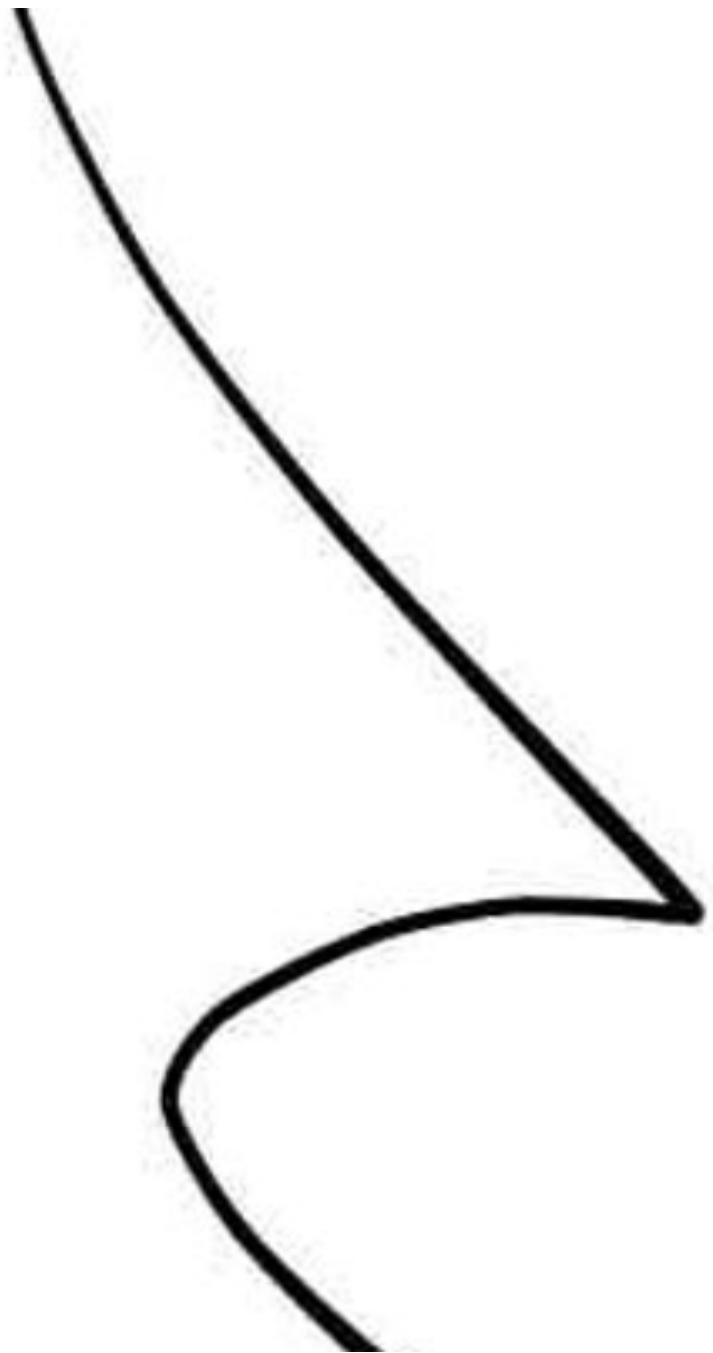
Copper conductors only, rated min. 75°C.
 Follow NFPA 70 (NEC), or CEA 6251 part 1, and all local codes.

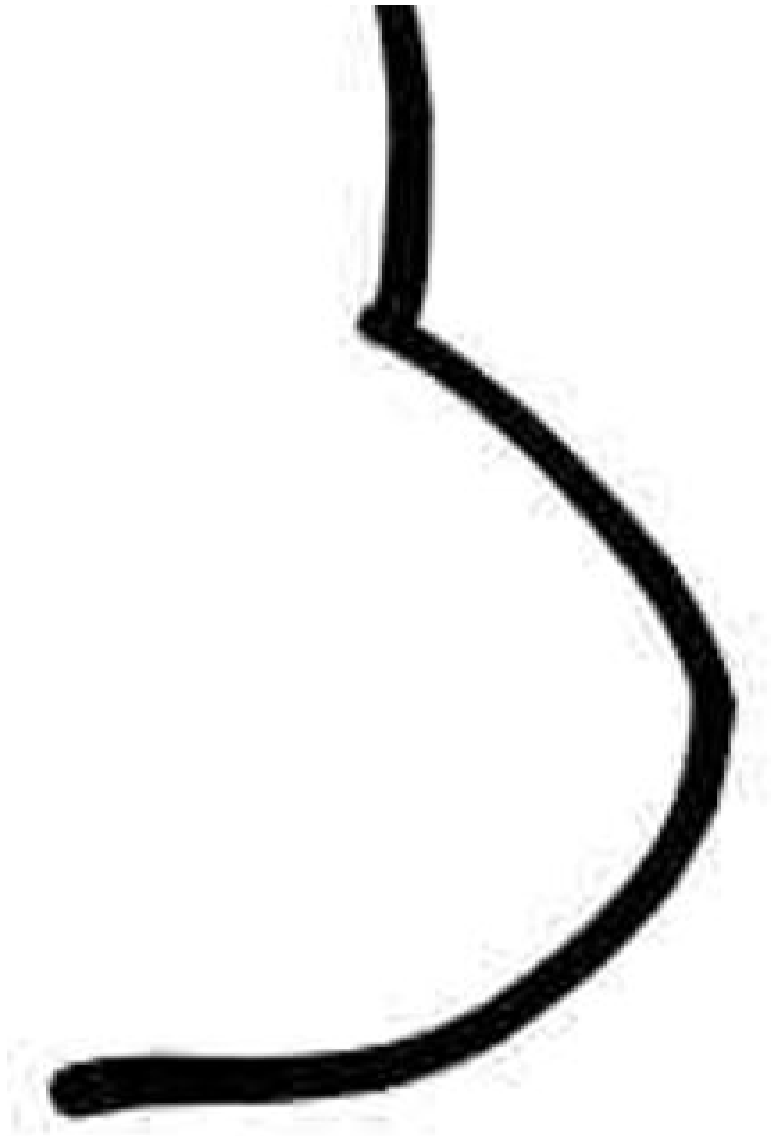
For DG Breakers larger than 20A, use wire insulated for 90°C based on 75°C ampacity.

Designed in California and New Zealand
 Made in China









REC Alpha Pure Series
REC400A Pure
Serial Number: FB8-400905288

Power Output (Pmax) 400 W
Power Production Tolerance 0 +5 W
Rated Voltage (Vmp) 42.1 V
Rated Current (Imp) 9.51 A
Open Circuit Voltage (Voc) (+/- 3%) 48.8 V
Short Circuit Current (Isc) (+/- 3%) 10.25 A
Maximum System Voltage (Vmax) 1000 V
Maximum Series Fuse (DC) (UL) 25 A
Maximum Series Fuse (DC) (IEC) 25 A
Design Load -800 / -2000 P_{max}
Maximum Fast Load +7000 / +4000 P_{max}

Power Class Sorting
Power Production Tolerance
Rated Voltage (Vmp)
Rated Current (Imp)
Open Circuit Voltage (Voc) (+/- 3%)
Short Circuit Current (Isc) (+/- 3%)
Maximum System Voltage (Vmax)
Maximum Series Fuse (DC) (UL)
Maximum Series Fuse (DC) (IEC)

400 W
0 +5 W
+/- 3%
42.1 V
9.51 A
48.8 V
10.25 A
1000 V
25 A
25 A
-800 / -2000 P_{max}
+7000 / +4000 P_{max}

REC
CE
UK
CA

Manufacturer: 05.09.2021

CAUTION: DO NOT DISCONNECT UNDER LOAD
Avertissement: Ne pas déconnecter sous tension
ATTENTION: NE PAS DÉCONNECTER SOUS TENSION
Do not disconnect under load. Disconnect only after the device has cooled down and the current has stopped flowing.
NE PAS DÉCONNECTER SOUS TENSION. Ne déconnectez pas sous tension. Attendez que l'appareil se refroidisse et que le courant cesse de circuler.

28 TLAK SOUTH AVENUE 14 SINGAPORE 62712, SINGAPORE
Made in Singapore by REC SOLAR PTE. LTD.
REC SOLAR PTE. LTD. 150, SOUTH AVENUE 14 SINGAPORE 62712, SINGAPORE

REC Alpha Pure Series
REC400A Pure
Serial Number: FB8-400905242

Power Output (Pmax) 400 W
Power Production Tolerance 0 +5 W
Rated Voltage (Vmp) 42.1 V
Rated Current (Imp) 9.51 A
Open Circuit Voltage (Voc) (+/- 3%) 48.8 V
Short Circuit Current (Isc) (+/- 3%) 10.25 A
Maximum System Voltage (Vmax) 1000 V
Maximum Series Fuse (DC) (UL) 25 A
Maximum Series Fuse (DC) (IEC) 25 A
Design Load -800 / -2000 P_{max}
Maximum Fast Load +7000 / +4000 P_{max}

Power Class Sorting
Power Production Tolerance
Rated Voltage (Vmp)
Rated Current (Imp)
Open Circuit Voltage (Voc) (+/- 3%)
Short Circuit Current (Isc) (+/- 3%)
Maximum System Voltage (Vmax)
Maximum Series Fuse (DC) (UL)
Maximum Series Fuse (DC) (IEC)

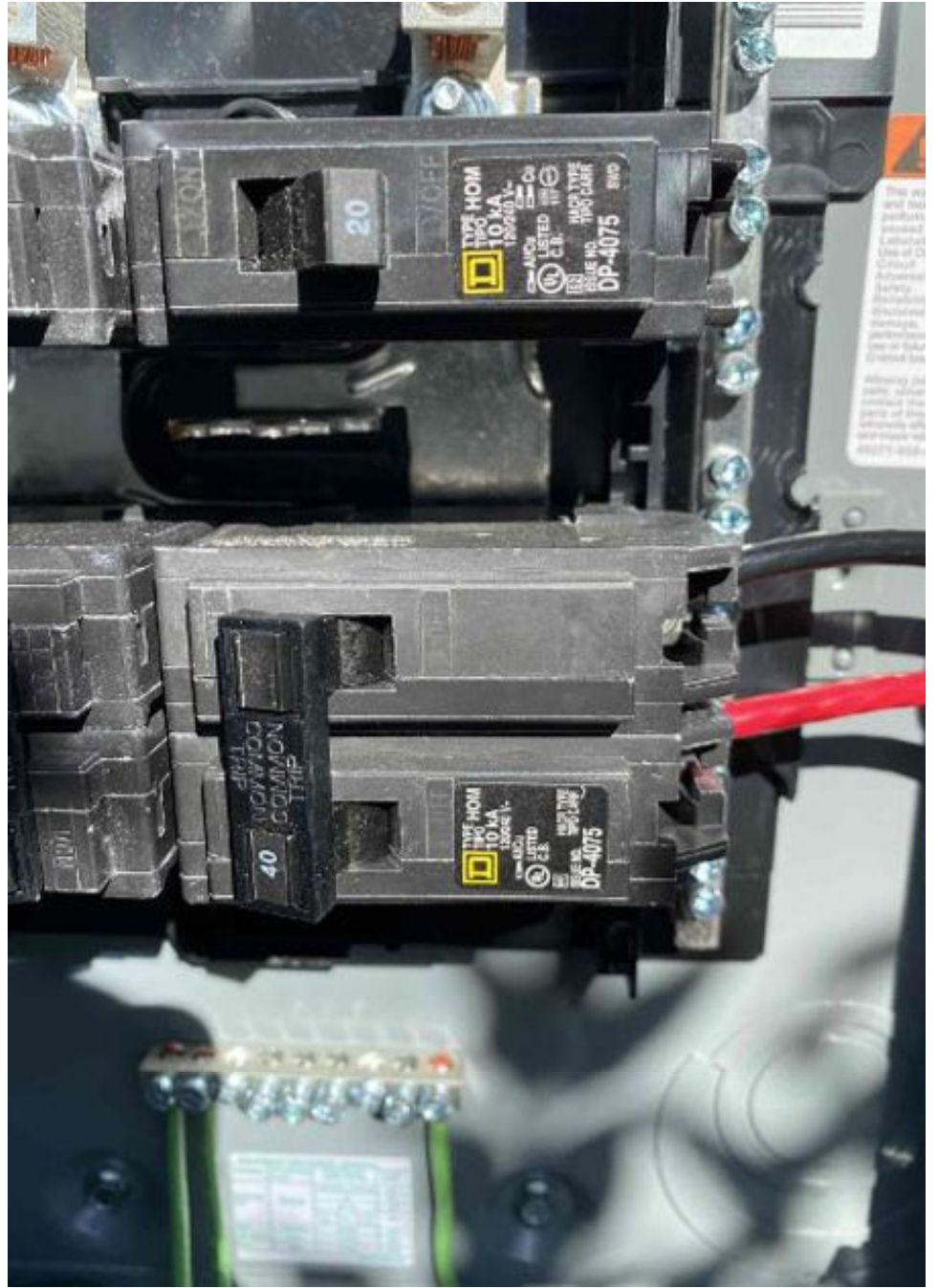
400 W
0 +5 W
+/- 3%
42.1 V
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REC
CE
UK
CA

Manufacturer: 05.09.2021

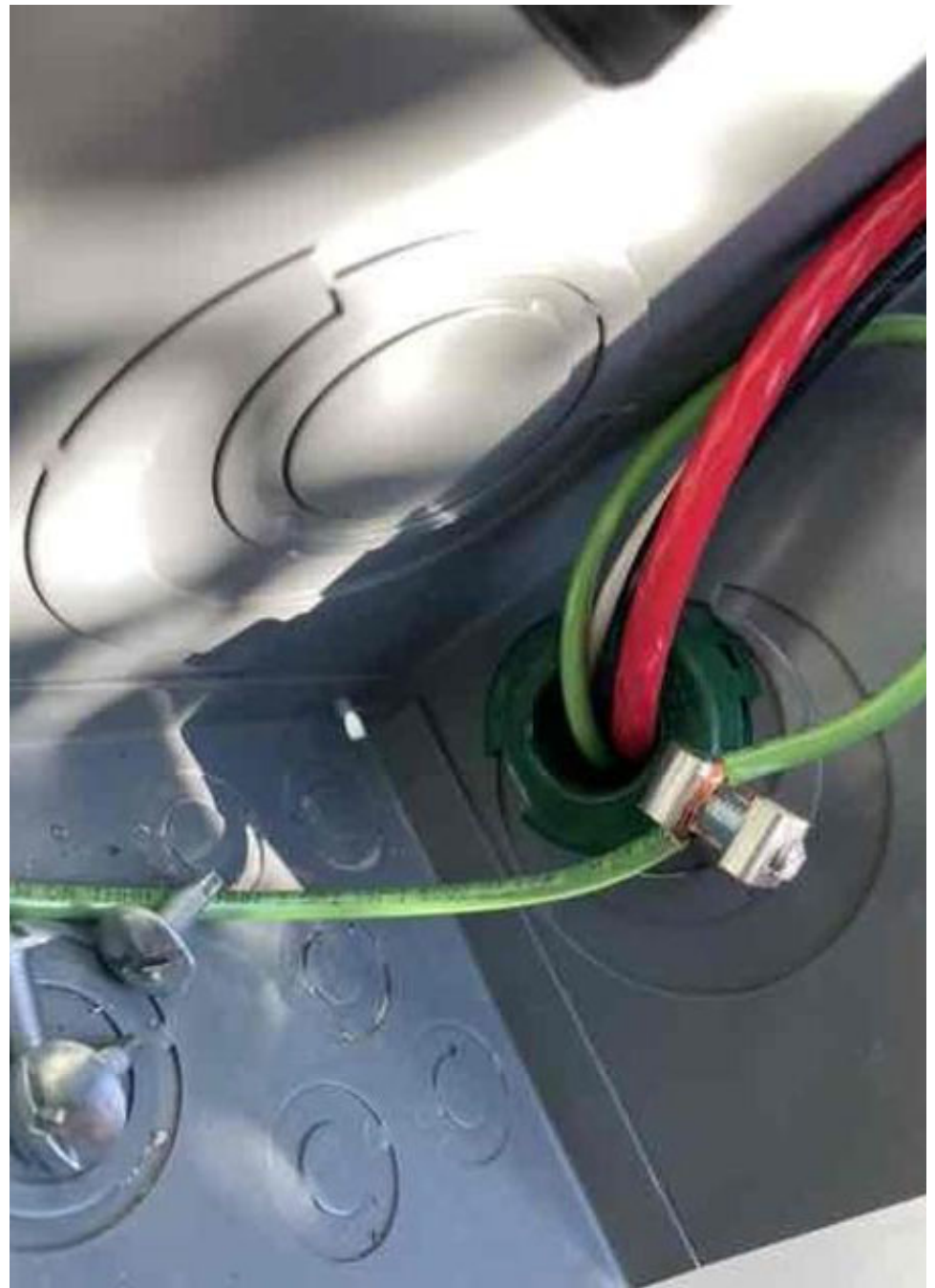
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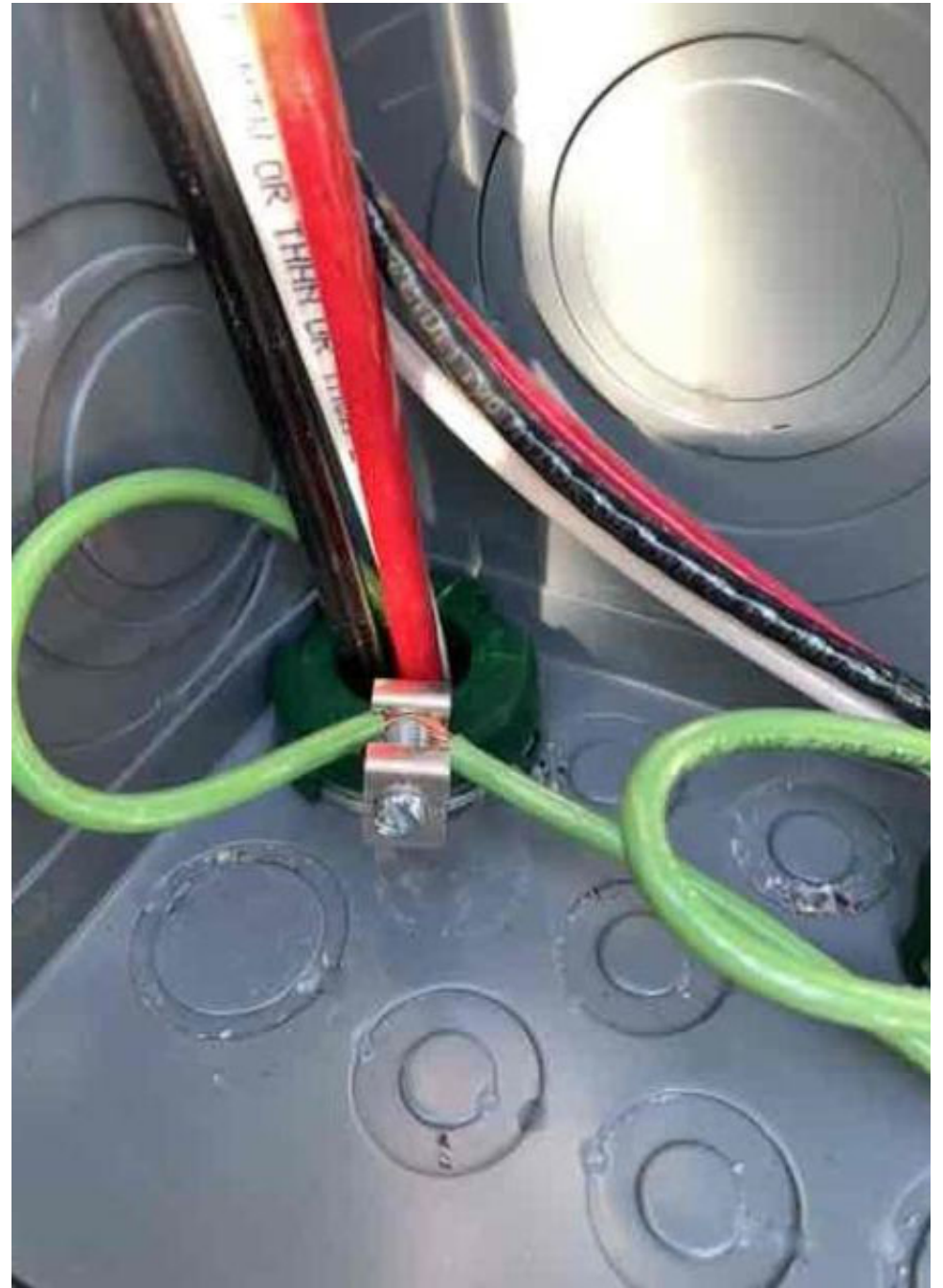
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Made in Singapore by REC SOLAR PTE. LTD.
REC SOLAR PTE. LTD. 150, SOUTH AVENUE 14 SINGAPORE 62712, SINGAPORE

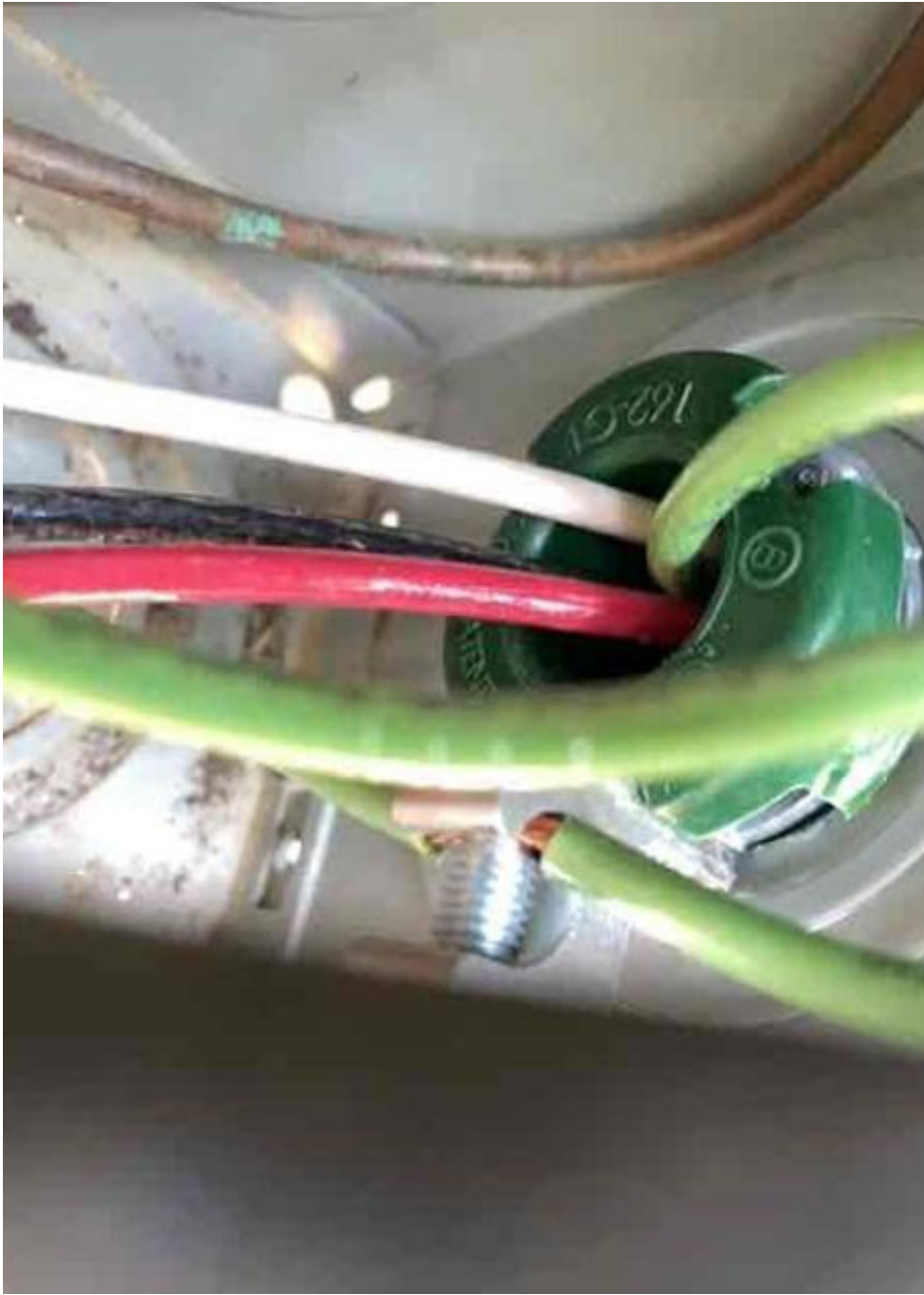






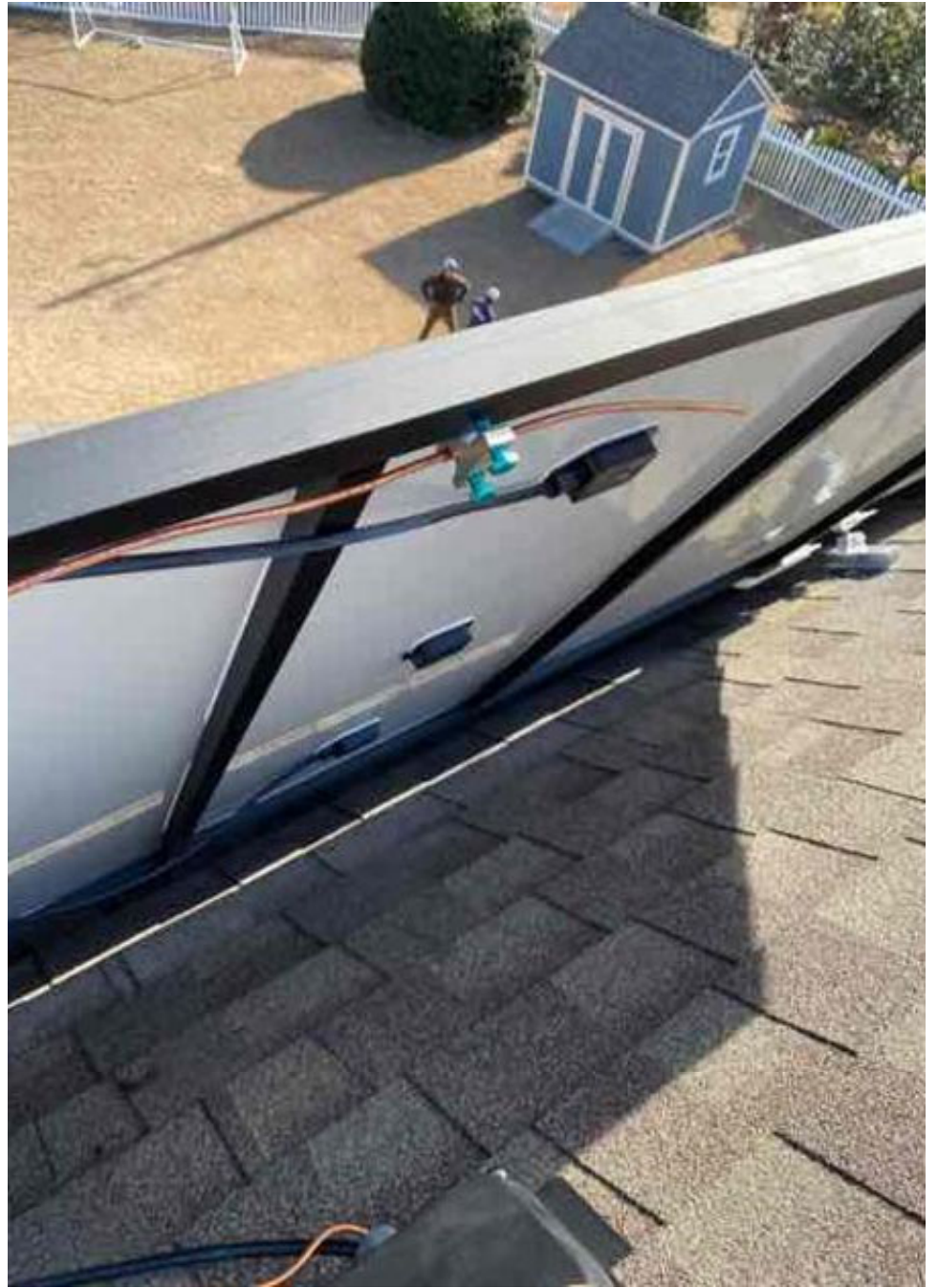
















Job Hazard Analysis

CUSTOMER NAME: Sared Smith
 INSTALLATION DATE: 8/14/22

ADDRESS: _____

HAZARD CATEGORY	POTENTIAL HAZARDS	HAZARD CONTROLS
Ladder Safety	<ul style="list-style-type: none"> • Disturbance • Defect/Failure • Electrocution 	Fiberglass ladders, feet + fiberglass good, 4 rungs above gutter, ladder horns OK strapped
Fall Protection	<ul style="list-style-type: none"> • Fall from 6' or greater 	2 Drilling anchor per person, All roof crew in harnesses + rebar in, shock packs
Electrical Safety	<ul style="list-style-type: none"> • Disturbance • ARC Flash 	breakers/switches open/off, insulated gloves, hard hats in DRZ, grounding aways, NGS
Heat & Related Issues	<ul style="list-style-type: none"> • High Heat - 85° or 95° • Extreme Heat - 100° or higher 	Bottled water + home spigots, gutter etc, hide/AC breaks
Public Protection	<ul style="list-style-type: none"> • Falling object • Slip/Trip/Fall 	cones around vehicle, RAZ in drop + hazard zones, slip mats on roof
NEAREST HOSPITAL	<u>WakeMed Urgent Care Fuquay-Varde</u>	
SAFETY CONTACT	<u>911, R.I.M., + BRS Field HR</u>	
Additional Notes		
Crew Members		
	Name	Signature
1	<u>Matthew Proctor</u>	<u>[Signature]</u>
2	<u>Alan Hightower</u>	<u>[Signature]</u>
3	<u>Hamon Dobbins</u>	<u>[Signature]</u>
4	<u>Will Salomon</u>	<u>[Signature]</u>
5	<u>Ditchell Myerung</u>	<u>[Signature]</u>
6		

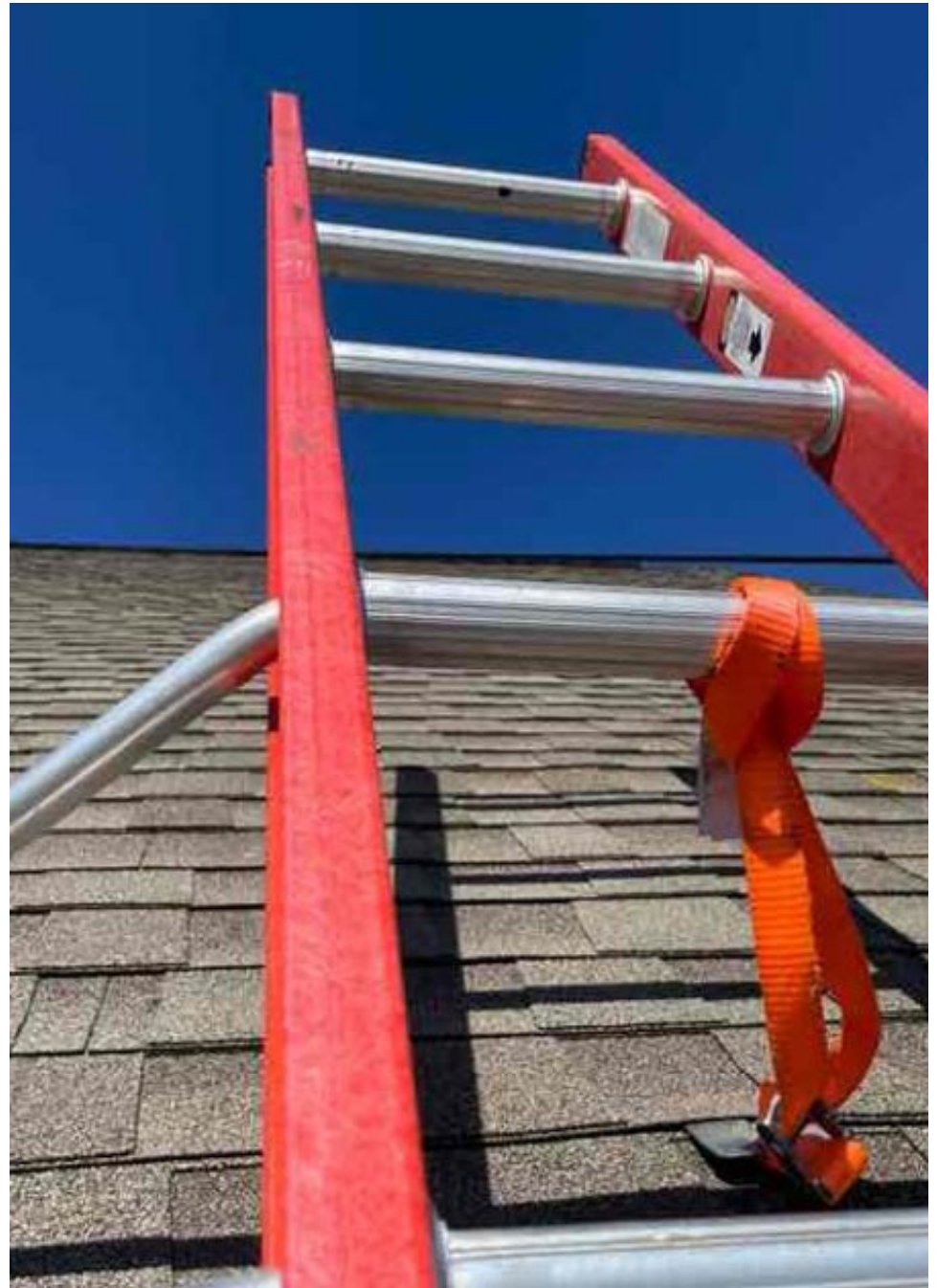
Hamon Dobbins [Signature]
Crew Lead (print) Crew Lead (print)











REC Alpha Pure Series REC400A Pure
 Serial Number: FBS 40009242

Power Output (Pmax): 400 W
 Power Production Tolerance: $\pm 3\%$
 Watt Class Rating: 0+5 W
 Rated Voltage (Vmp): 42.1 V
 Rated Current (Imp): 8.81 A
 Open Circuit Voltage (Voc) (+/- 2%): 48.9 V
 Short Circuit Current (Isc) (+/- 2%): 10.25 A
 Maximum System Voltage (Vmax): 1000 V
 Maximum Series Fuse (DC) (UL): 25 A
 Maximum Series Fuse (DC) (IEC): 25 A
 Design Load: 25 A
 Maximum Tact Load: 4000 PA*
 4000 / 2668 PA
 1700 / 4000 PA

REC400A Pure is a monocrystalline silicon solar panel with a power output of 400 W. It is designed for use in residential and commercial solar power systems. The panel is made of high-quality silicon cells and is protected by a durable glass cover. It is available in a variety of sizes and configurations to meet different installation requirements.

Power Production Tolerance: $\pm 3\%$
 Rated Voltage (Vmp): 42.1 V
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 Design Load: 25 A
 Maximum Tact Load: 4000 PA*
 4000 / 2668 PA
 1700 / 4000 PA

CE UK CB
 Manufactured 05.09.2021

Warning electrical hazard. This module contains hazardous materials. Do not touch the module under load. CAUTION: DO NOT DISCONNECT UNDER LOAD. Avertissement: Risque de choc électrique. Ne pas déconnecter sous tension. Attention: NE PAS DECONNECTER SOUS TENSION. For your convenience, REC Solar has provided a free of charge service to help you with the installation of your REC Solar Panel. Please contact us at 1-800-REC-SOLAR (732-762-7762) for more information. REC Solar, 25115 South Avenue 7E, Singapore 627712, Singapore.















**UNIRAC**
BETTER SOLAR STARTS HERE
www.unirac.com


253020U
SFM MICRORAIL 2"
Pack Size: 10

WO/PO# : 0044373-00
Manufacture date: 11/17
Factory Code : 010A


810039383379

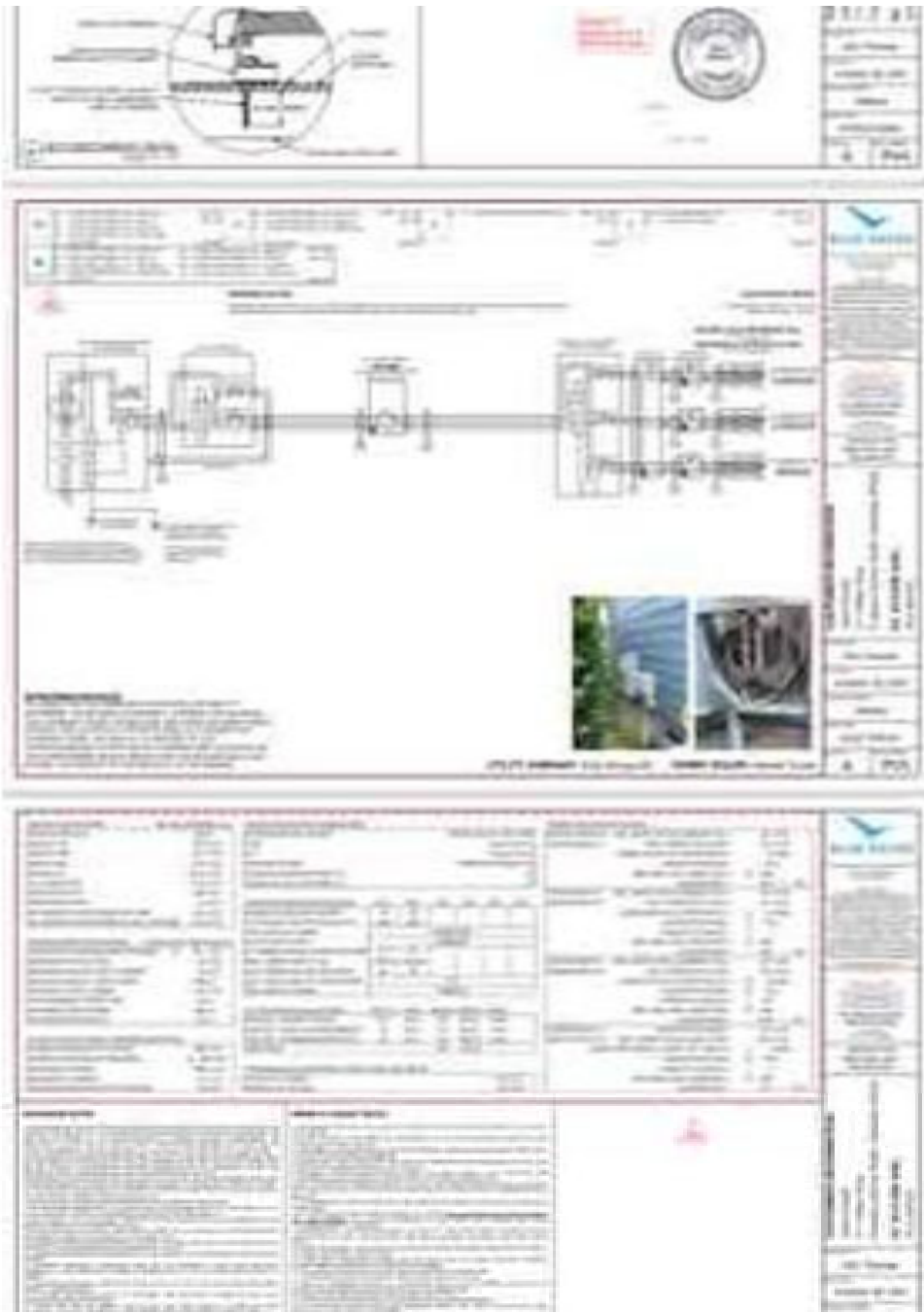


**UNIRAC**
BETTER SOLAR STARTS HERE
www.unirac.com


253010U
SFM SPLICE 6.5"
Pack Size: 10

WO/PO# : 0044373-00
Manufacture date: 11/17
Factory Code : 010A


810039383379







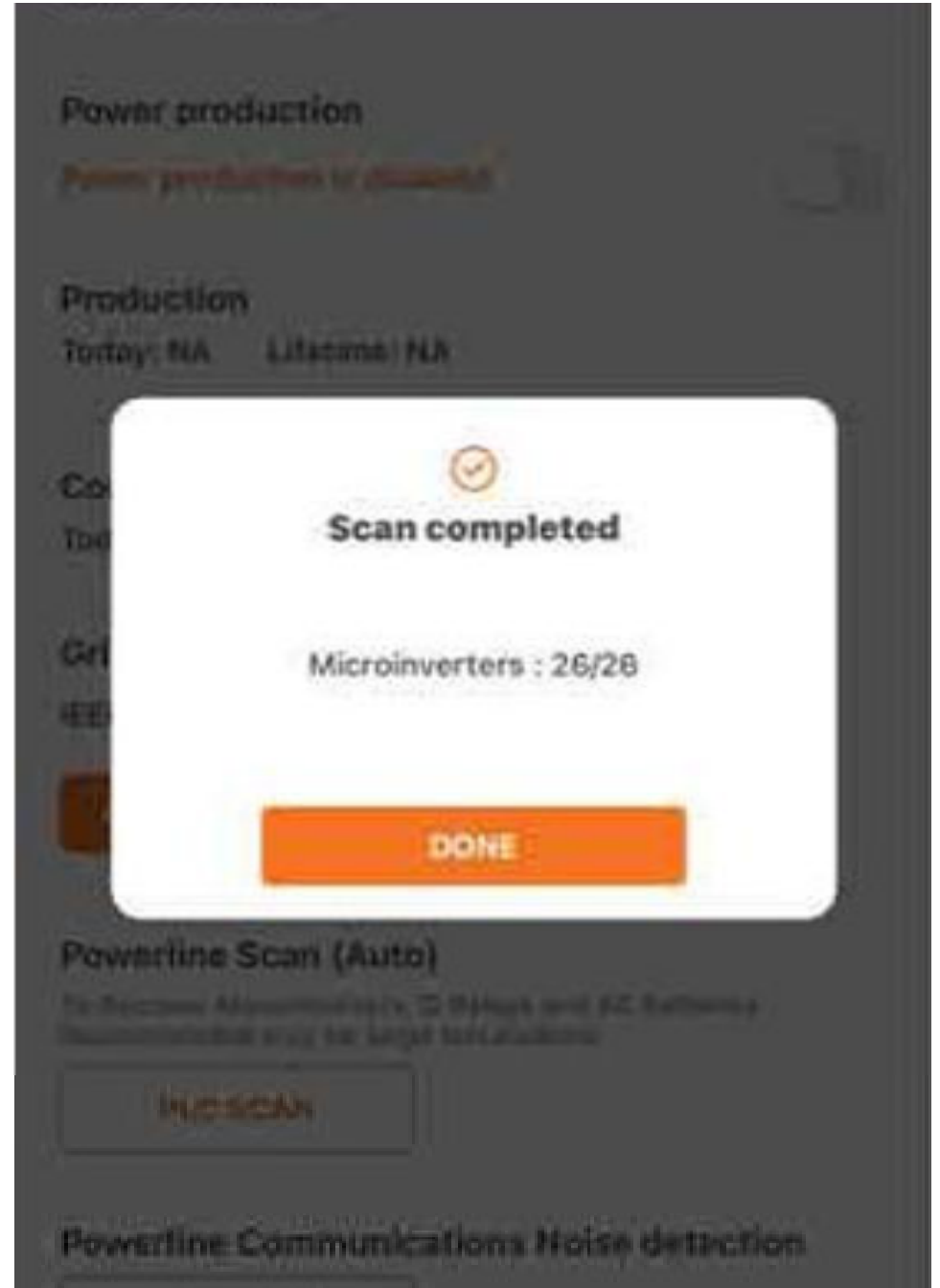












Start Provisioning Devices


Envoy 122111050112



Envoy successfully connected to Enlighten and Installer Toolkit

Envoy Connectivity Status

-  **Wi-Fi** Connected >
192.168.50.7
-  **Ethernet**
-  **Cellular**

 **Software up-to-date**

