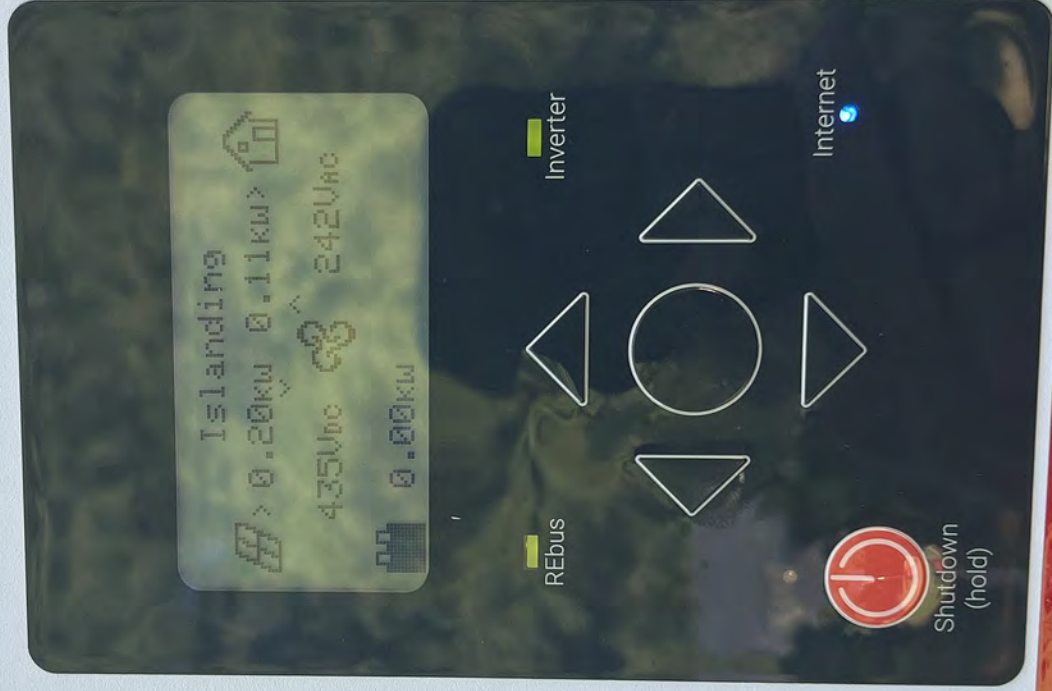




# PWRCELL



RAPID SHUTDOWN SWITCH  
FOR SOLAR PV SYSTEM  
LOCATED BEHIND THIS LID

SOLAR PV SYSTEM





IP TECH-SHIELD

PHOTOVOLTAIC  
POWER SOURCE

IP TECH-SHIELD  
IP TECH-SHIELD  
IP TECH-SHIELD

USE STRONG TAPE TO SECURE CONNECTIONS ON CONCRETE SURFACES  
USE STRONG TAPE TO SECURE CONNECTIONS ON CONCRETE SURFACES  
USE STRONG TAPE TO SECURE CONNECTIONS ON CONCRETE SURFACES



UNFINISHED

R-8  
ASTM  
COVERED BY  
PATENT 5,926,811

14

COVERED BY  
PATENT 5,926,811





PHOTOVOLTAIC  
POWER SOURCE

TECHS  
RADIANT  
PROTECTING  
FOIL-FACE INSULATION  
ROOFS THIS SYSTEM  
CUSTOMER'S

**CAUTION: SOLAR ELECTRIC  
SYSTEM CONNECTED**

Electric Panel Schedule of Equipment (NEC 408.40) - Panelboard

Equipment	Panel	Location	Notes
1. 100 Amp Main Breaker	1	100	
2. 20 Amp Branch Breaker	2	20	
3. 20 Amp Branch Breaker	3	20	
4. 20 Amp Branch Breaker	4	20	
5. 20 Amp Branch Breaker	5	20	
6. 20 Amp Branch Breaker	6	20	
7. 20 Amp Branch Breaker	7	20	
8. 20 Amp Branch Breaker	8	20	
9. 20 Amp Branch Breaker	9	20	
10. 20 Amp Branch Breaker	10	20	
11. 20 Amp Branch Breaker	11	20	
12. 20 Amp Branch Breaker	12	20	
13. 20 Amp Branch Breaker	13	20	
14. 20 Amp Branch Breaker	14	20	
15. 20 Amp Branch Breaker	15	20	
16. 20 Amp Branch Breaker	16	20	
17. 20 Amp Branch Breaker	17	20	
18. 20 Amp Branch Breaker	18	20	
19. 20 Amp Branch Breaker	19	20	
20. 20 Amp Branch Breaker	20	20	

**Carroll's**  
118 300 2374 Palmdale • 118 300 2374 Palmdale

Equipment	Panel	Location	Notes
1. 100 Amp Main Breaker	1	100	
2. 20 Amp Branch Breaker	2	20	
3. 20 Amp Branch Breaker	3	20	
4. 20 Amp Branch Breaker	4	20	
5. 20 Amp Branch Breaker	5	20	
6. 20 Amp Branch Breaker	6	20	
7. 20 Amp Branch Breaker	7	20	
8. 20 Amp Branch Breaker	8	20	
9. 20 Amp Branch Breaker	9	20	
10. 20 Amp Branch Breaker	10	20	
11. 20 Amp Branch Breaker	11	20	
12. 20 Amp Branch Breaker	12	20	
13. 20 Amp Branch Breaker	13	20	
14. 20 Amp Branch Breaker	14	20	
15. 20 Amp Branch Breaker	15	20	
16. 20 Amp Branch Breaker	16	20	
17. 20 Amp Branch Breaker	17	20	
18. 20 Amp Branch Breaker	18	20	
19. 20 Amp Branch Breaker	19	20	
20. 20 Amp Branch Breaker	20	20	



solar feed

40

42

DP-4075  
ISSUE NO. 81  
HACR TYPE  
TIPD CARR.  
C.B.  
LISTED  
A/Cu  
120/240 V.  
10 KA  
TYPE HOM

DP-4075  
ISSUE NO. 82  
HACR TYPE  
TIPD CARR.  
C.B.  
LISTED  
A/Cu  
120/240 V.  
10 KA  
TYPE HOM

15

40

12 48

13 16

COMMON

OFF

ON





# DANGER

**RISQUE D'ÉLECTROCUTION, D'EXPLOSION OU D'ÉCLAIR D'ARC**

- Portez un équipement de protection personnel (EPP) approprié et observez les méthodes de travail électrique sécuritaire. Voir NFPA 70E.
- Seul un personnel qualifié doit effectuer l'installation et l'entretien de cet appareil.
- Coupez l'alimentation de cet appareil avant d'y travailler.
- Utilisez toujours un dispositif de détection de tension à valeur nominale appropriée pour s'assurer que l'alimentation est coupée.
- Remplacez tous les dispositifs, les portes et les couvercles avant de mettre l'appareil sous tension.

Si ces précautions ne sont pas respectées, cela entraînera la mort ou des blessures graves.

**DE DESCARGA ELÉCTRICA, EXPLOSIÓN O DESTELLO POR ARQUEO**

● Use personal protective equipment (PPE) appropriate and observe safety methods for electrical work. See NFPA 70E.

● Only a qualified person should perform the installation and maintenance of this equipment.

● Turn off the power to this equipment before working on it.

● Always use a voltage detection device with a nominal value appropriate for the equipment to ensure that the power is off.

● Replace all devices, doors and covers before putting the equipment under tension.

● If these precautions are not followed, death or serious injury may result.

**HOMELINE® Load Center Cover /**  
**Frente del centro de carga HOMELINE®**

**HOMC42UC**  
 Series / Serie: S01

Mains Rating /  
 Valor nominal de



Type 1 Enclosure / Gabinete Tipo 1

Accessories / Accesorios

HOMFP - Branch breaker filler plate / Placa de relleno del interruptor automático derivado

GOM2FP - Main breaker filler plate / Placa de relleno del interruptor automático principal

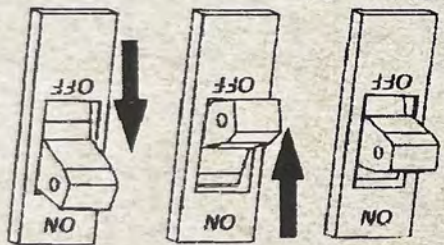
PK6FL - Door Lock Kit / Accesorio de cerradura de puerta

4020513002K - Cover Screw Kit / Accesorio de tornillos de la cubierta

See Wiring Diagram for additional Accessories. Consult the wiring diagram to obtain additional accessory information.

1	2	3	4	5	6	7	8
ATC	10k3				RANGE		

Circuit Breaker Reset /  
 Restablecimiento del interruptor automático



Tripped /  
 Disparado

(1)  
 (2)

**UL**  
 ELECTRIC  
 CABINET  
 FRONT  
 LISTED R-2160

**SQUARE D**

www.SquareD.com  
 Made in U.S.A.  
 Hecho en EUA

131851 [UL] 40265-632-05



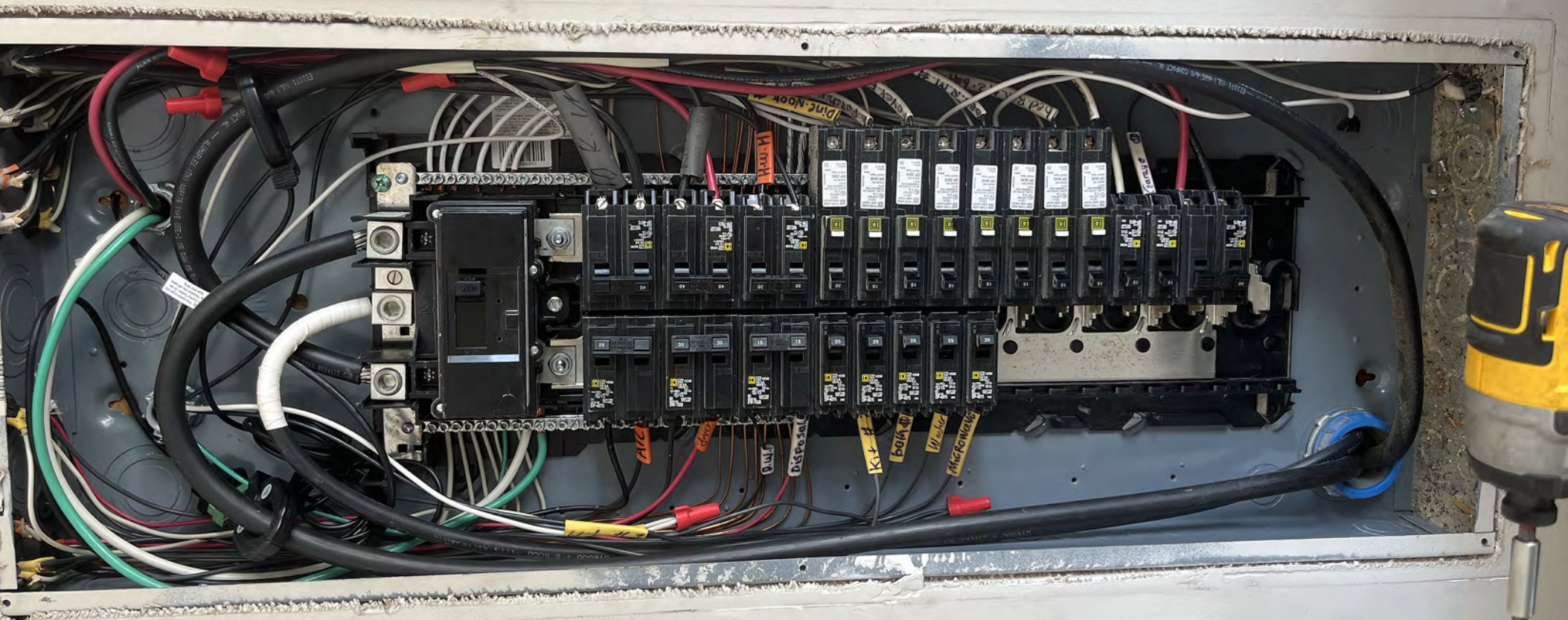












ALSO LISTED AS  
C.B.  
LISTED  
120 V~  
HOM115CAFI  
TYPE HOM

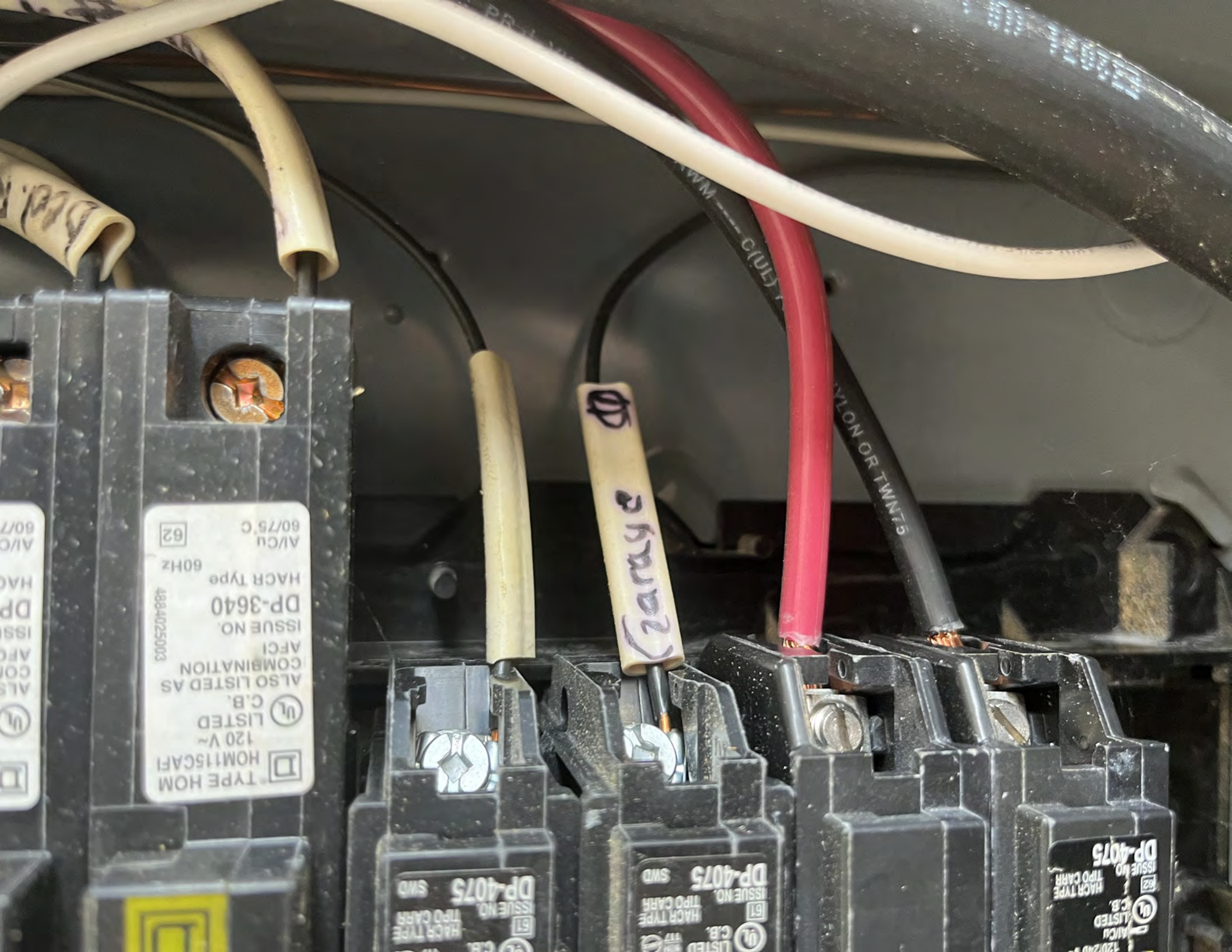
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HOM115CAFI  
120 V~  
LISTED  
C.B.  
ALSO LISTED AS  
COMBINATION  
AFCI  
ISSUE NO.  
DP-3640  
HACR Type  
60Hz  
62  
A/CU  
60/75 C  
4884025003

TYPE HOM  
HOM115CAFI  
120 V~  
LISTED  
C.B.  
ALSO LISTED AS  
COMBINATION  
AFCI  
ISSUE NO.  
DP-4075  
HACR Type  
60Hz  
61  
A/CU  
60/75 C

TYPE HOM  
HOM115CAFI  
120 V~  
LISTED  
C.B.  
ALSO LISTED AS  
COMBINATION  
AFCI  
ISSUE NO.  
DP-4075  
HACR Type  
60Hz  
61  
A/CU  
60/75 C

TYPE HOM  
HOM115CAFI  
120 V~  
LISTED  
C.B.  
ALSO LISTED AS  
COMBINATION  
AFCI  
ISSUE NO.  
DP-4075  
HACR Type  
60Hz  
62  
A/CU  
60/75 C

Handwritten label: *DP* (circled) *2 phase*





Handwritten label on yellow tape:  $\Phi$  2A

OR-AWM  
C(UE)

NON-OR-TWINS

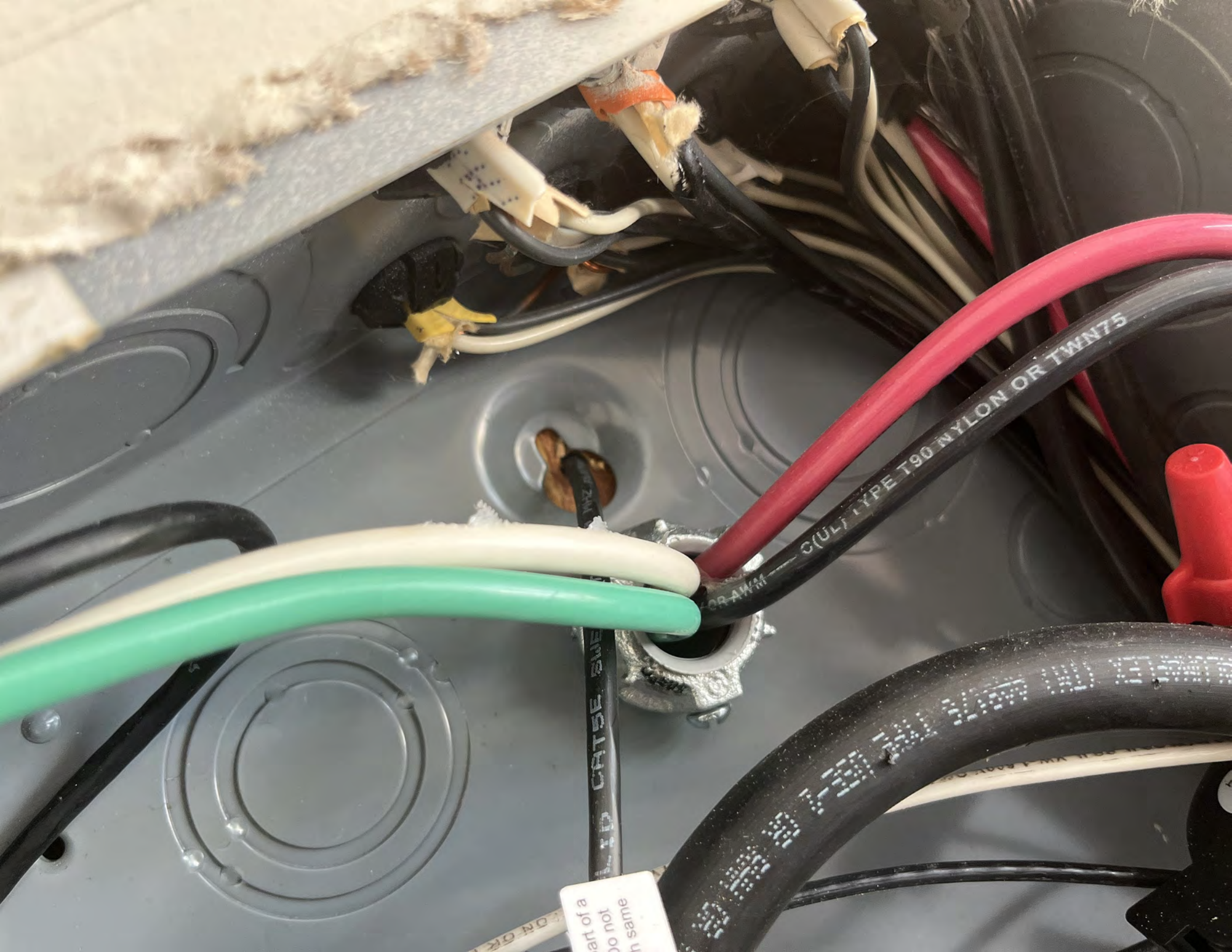


Terminal Block Label:  
Terminal 1  
Terminal 2  
Terminal 3  
Terminal 4  
Terminal 5  
Terminal 6  
Terminal 7  
Terminal 8  
Terminal 9  
Terminal 10  
Terminal 11  
Terminal 12  
Terminal 13  
Terminal 14  
Terminal 15  
Terminal 16  
Terminal 17  
Terminal 18  
Terminal 19  
Terminal 20  
Terminal 21  
Terminal 22  
Terminal 23  
Terminal 24  
Terminal 25  
Terminal 26  
Terminal 27  
Terminal 28  
Terminal 29  
Terminal 30  
Terminal 31  
Terminal 32  
Terminal 33  
Terminal 34  
Terminal 35  
Terminal 36  
Terminal 37  
Terminal 38  
Terminal 39  
Terminal 40  
Terminal 41  
Terminal 42  
Terminal 43  
Terminal 44  
Terminal 45  
Terminal 46  
Terminal 47  
Terminal 48  
Terminal 49  
Terminal 50

Handwritten label on white wire:  $\Phi$  25VDC

AWM 24 PR 4L 30W-1 600V OR AWM  
C(UL) T

ON OR TWIN



C(UL) TYPE T90 NYLON OR TWN75

LID CATSE SHE

part of a  
do not  
in same

ON OR



GENERAC  
PWRcell

GENERAC  
PWRcell

YORK





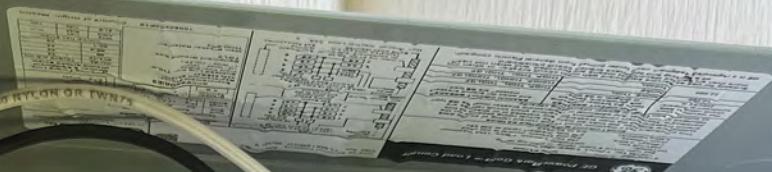
GENERAC  
PWR LED

YORK









QUALITY GATE  
Q01 2035  
Q02 N/A  
33020358

TOP  
SAL 149 @  
INS-HIPOT 30204195

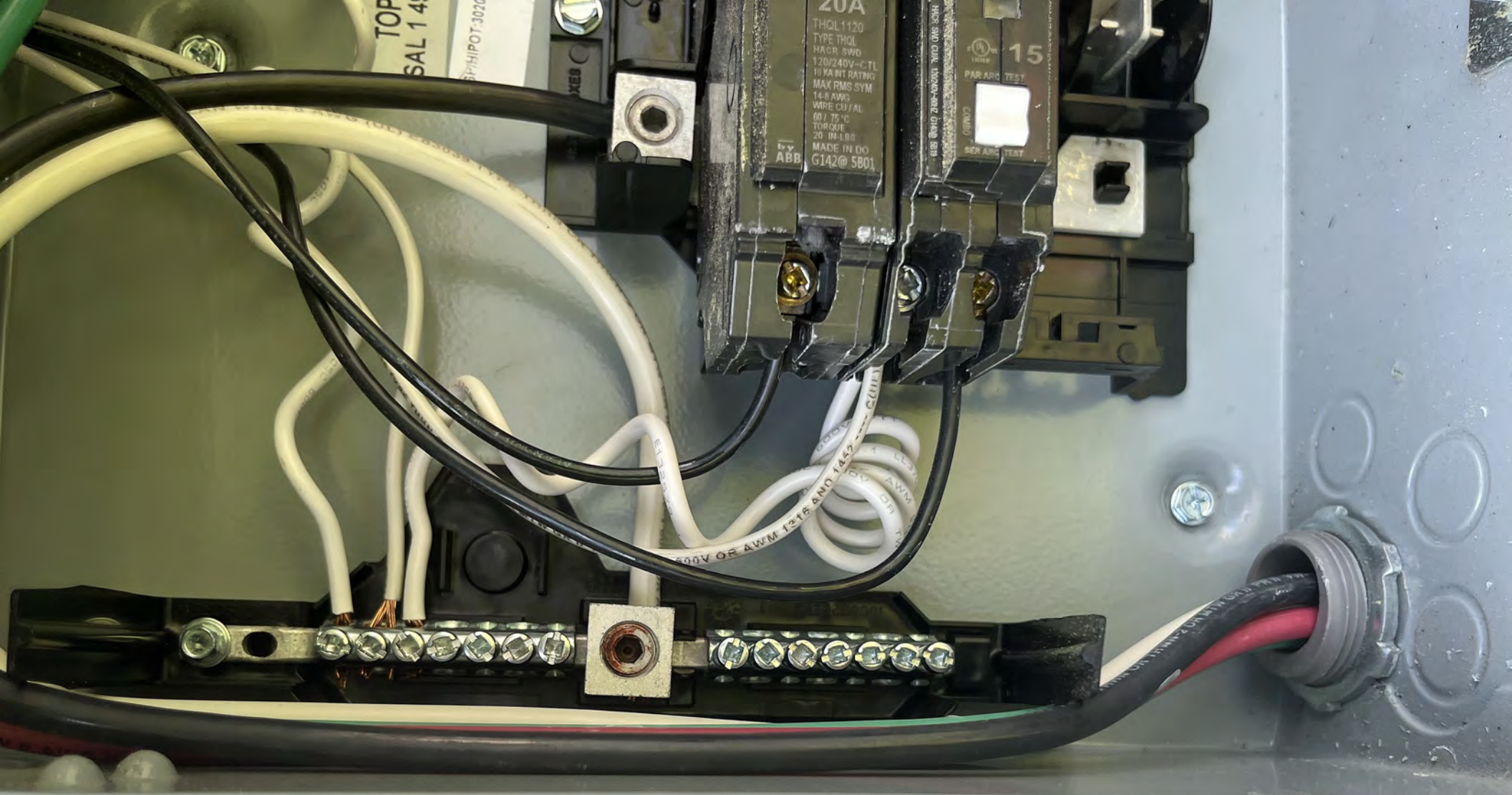
20 A  
OFF C  
15  
ON

OFF  
20A  
ON  
15  
OFF  
ON

ALAN WIRE W.G. AWG (UL) E63030 TYPE THHN OR THWN-2 OR MTW GRLI PRIL WIR  
ALAN WIRE W.G. AWG (UL) E63030 TYPE THHN OR THWN-2 OR MTW GRLI PRIL WIR

Terminal blocks and breaker components are visible, including a 20A breaker with a 15A sub-breaker and a 15A breaker. Wires are connected to these terminals and to a busbar at the top.

1500V ON THHN-2 OR MTW GRLI PRIL WIR



QUALITY DATE

001 20353

2 N/A

30/20358

ALAN WIRE W 6 AWG (UL) E83039 TYPE THHN OR THHW-2 OR MTW-GR II PR II 14M2

TOP  
SAL 1 49 @

NSP-HPOT-30204195

ALAN WIRE W 6 AWG (UL) E83039 TYPE THHN OR THHW-2 OR MTW-GR II PR II 14M2

ABB  
THQL1120  
TYPE THQL  
HACR SWD  
120/240V-C TL  
10 KA INT RATING  
MAX RMS SYM  
14.5 AWG  
WIRE CU/AL  
69/75 C  
TORQUE  
29 IN LBS  
MADE IN DO  
G14@ 5801

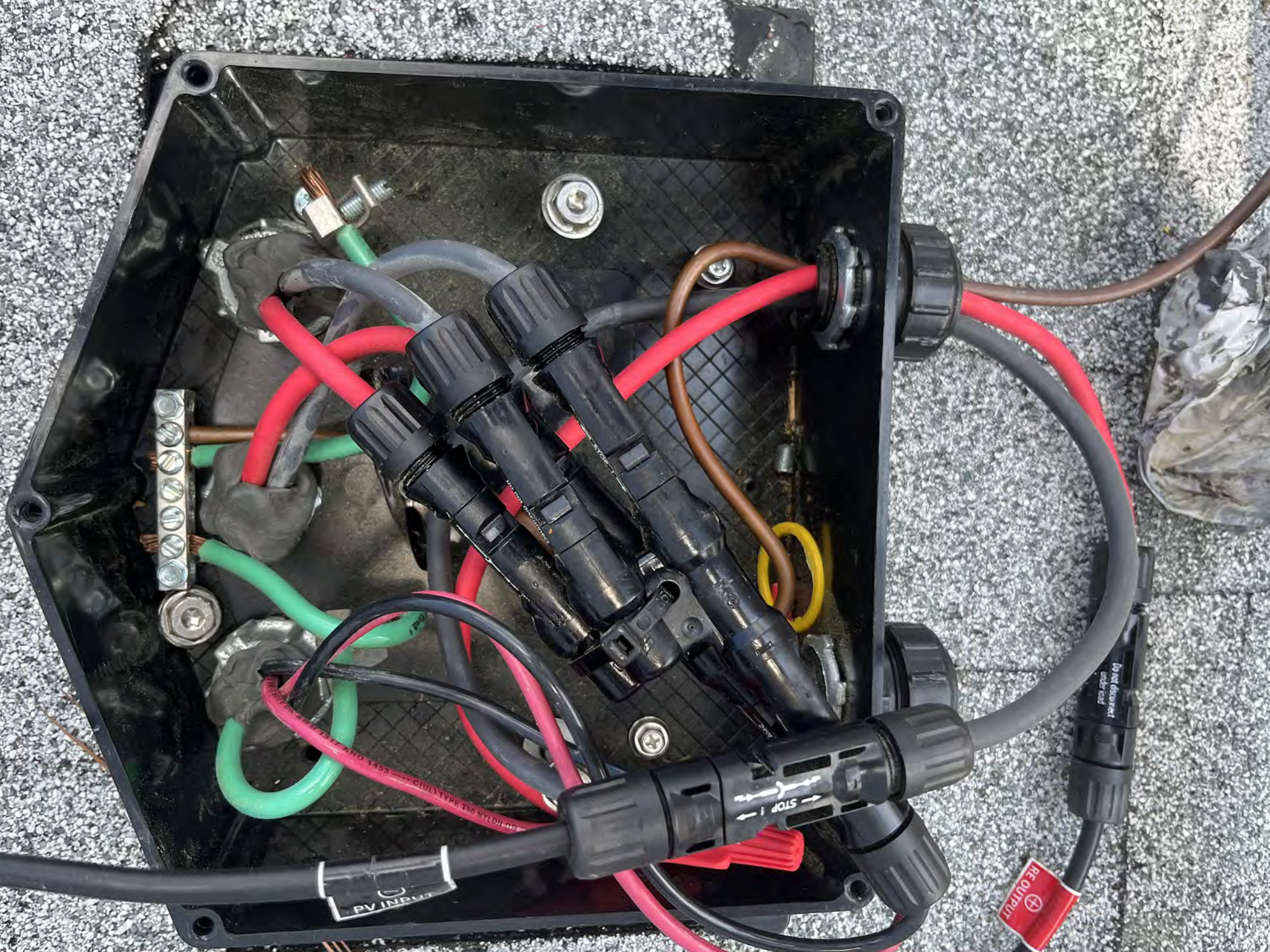
ABB  
THQL1120  
TYPE THQL  
HACR SWD  
120/240V-C TL  
10 KA INT RATING  
MAX RMS SYM  
14.5 AWG  
WIRE CU/AL  
69/75 C  
TORQUE  
29 IN LBS  
MADE IN DO  
G14@ 5801

30XES  
TL4012 TL4012  
TM000

ALAN WIRE W 6 AWG (UL) E83039 TYPE THHN OR THHW-2 OR MTW-GR II PR II 14M2

ALAN WIRE W 6 AWG (UL) E83039 TYPE THHN OR THHW-2 OR MTW-GR II PR II 14M2





Terminal block with 5 screws

PV INPUT

STOP

RE OUTPUT

Do not disconnect under load



PV INPUT

DC OUTPUT

Do not disconnect  
while system is  
energized











ENCLOSURE MUST BE GROUNDING

GENETAC PV Link / S2502  
DC/DC Converter  
100Watt  
12VDC

REBus DC Nanogrid  
OUTPUT

DC/DC Converter  
100Watt  
12VDC

ENCLOSURE MUST BE GROUNDING

PV Substring  
INPUT

WARNING: THIS DEVICE IS NOT TO BE USED IN A RAINY OR WET ENVIRONMENT. IT IS NOT TO BE USED IN A RAINY OR WET ENVIRONMENT. IT IS NOT TO BE USED IN A RAINY OR WET ENVIRONMENT.

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**ENCLOSURE MUST BE GROUNDED**  
for REbus communication

PCP: 0001013D428  
S/N: S2502\_C028B  
Date: 04-21

**GENERAC® Snap**

**PV Link / S2502**  
Compatible substrating optimizer  
At shutdown system equipment.

**REbus DC Nanogrid OUTPUT**

**PV Substring INPUT**

**IMPORTANT INSTALLATION INSTRUCTIONS:**

**WARNING:** Connect only with the PV Link / S2502. This optimizer is designed to operate with the PV Link / S2502. Do not connect to other optimizers or inverters. Failure to follow these instructions may result in equipment damage, fire, or personal injury.

**CAUTION:** Do not touch the PV Link / S2502 terminals while the system is energized. The PV Link / S2502 contains high voltage components that can cause electrical shock. Always use proper safety procedures when working on the PV Link / S2502.

**AGREEMENT:** By connecting the PV Link / S2502 to the system, you agree to the terms and conditions of the warranty and the disclaimer of liability. The PV Link / S2502 is provided as a convenience and is not intended to be used for any other purpose.

**ATTENTION:** The PV Link / S2502 is not a power source. It only optimizes the power from the PV modules. The PV Link / S2502 must be connected to a power source in order to operate.

**Input:**  
Max 420V (temperature corrected V)  
SINGLE STRING INPUT  
Dual string input requires approval

**Output:**  
Connect PV links to inverter REbus terminals in parallel

**PERSS Controlled Conductor Connection Port**  
Refer to instructions for conditions of use

**WARNING:** Connect only with the PV Link / S2502. This optimizer is designed to operate with the PV Link / S2502. Do not connect to other optimizers or inverters. Failure to follow these instructions may result in equipment damage, fire, or personal injury.

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1097  
4007

**ENCLOSURE MUST BE GROUNDED**  
for REbus communication



RCP: 00010013D426  
S/N: S2502-C0298  
MFG: B  
Date: Q4-21



PVRSS  
Refer  
**RE**

**GENERAC®**

**PVI**  
SnapRS™  
PV

202321512550102274

ENGINEERED, DESIGNED AND QUALITY TESTED BY Q CELLS IN GERMANY  
**Q.PEAK DUO BLK ML-G10.a+ 400**

**PERFORMANCE AT STANDARD TEST CONDITIONS\***

	$P_{MPP}$	$I_{sc}$	$V_{oc}$	$I_{MPP}$	$V_{MPP}$	$V_{SYS}$	M
Nominal Power* (+5W/-0W)	[W]	[A]	[V]	[A]	[V]	[V]	[kg/lbs]
Short circuit current*	400	11.14	45.30	10.77	37.13	1000 (IEC)	22.0 / 48.5
Open circuit voltage*						1000 (UL)	
Current at maximum power							
Voltage at maximum power							
Maximum system voltage							
Weight							

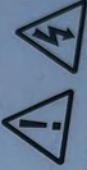
\*Measurement tolerances:  $P_{MPP} \pm 3\%$ ;  $I_{sc}$ ,  $V_{oc}$   $\pm 5\%$  at STC: 1000W/m<sup>2</sup>, 25  $\pm$  2 °C, AM 1.5 according to IEC 60904-3. Data given are rated (nominal) values.  
 IEC 61215:2016; IEC 61730:2016.



202321512550102274

**Q CELLS**

Assembled in USA



**DANGER!**

**Risk of electric shock!**

DO NOT connect or disconnect plug contacts while system is under load current. Refer to the Installation and Operation Manual before installing, operating or servicing this unit.

**DANGER!**

**Risque de choc électrique!**

NE PAS connecter ou déconnecter les connecteurs lorsque le système est en charge. Consultez le manuel d'installation et d'utilisation avant installation, utilisation et entretien du produit.

**Fire Rating:** Class C / Type 2

**Design load:** 55 lbs/ft<sup>2</sup>

**Fuse Rating:** 20A

For field connections, use minimum No.12 AWG copper wires insulated for a minimum of 90 °C

U.S. Patent No. 9,893,215  
(solar cells)

EMAIL [service@q-cells.com](mailto:service@q-cells.com)  
 WEB [www.q-cells.com](http://www.q-cells.com)

**Hanwha Q CELLS USA Inc.**,  
 300 Nexus Drive, Dalton GA 30721, USA  
**Certification holder:** Hanwha Q CELLS GmbH