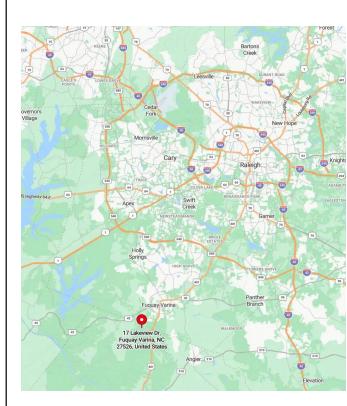
SR.# PHOTOVOLTAIC ROOF MOUNT SYSTEM **PROJECT INFORMATION PV MODULES** 1 25 x Canadian Solar CS6.1-54TM-455H **CODE AND STANDARDS INVERTER + BATTERY** 2 01 X POWERWALL 3 THE INSTALLATION OF SOLAR ARRAYS AND PHOTOVOLTAIC POWER SYSTEMS SHALL COMPLY 3 **ROOF TYPE ASPHALT SHINGLES** WITH THE FOLLOWING CODES: 2020 NATIONAL ELECTRICAL CODE 4 RACKING PSR-B84 RAILS (BLACK) 2018 NORTH CAROLINA RESIDENTIAL CODE 2018 NORTH CAROLINA BUILDING CODE **MOUNTING TYPE** 5 INSTAFLASH2 (BLACK) ALL OTHER ORDINANCE ADOPTED BY THE LOCAL GOVERNING AGENCIES DC SIZE 6 11.375 KW **SITE NOTES / OSHA REGULATION AC SIZE** 11.5 KVA 7 1. A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS. THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR SR.# **PROJECT INFORMATION** BUILDING ROOF VENTS. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED AND PV1 1 **DRAWING INDEX** IDENTIFIED BY RECOGNIZED ELECTRICAL TESTING LABORATORY. MODULES AND SUPPORT STRUCTURES SHALL BE GROUNDED 2 PV2 SITE LAYOUT SOLAR INVERTER SHALL BE LISTED TO UL1741 PV3 3 STRING MAPPING ALL CONDUCTORS SHALL BE COPPER AND SHOULD BE 75 AND 90 DEG RATED REMOVAL OF AN INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT PV4 4 **ELECTRICAL ONE LINE DIAGRAM** THE BONDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR, THE PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT GROUNDED CONDUCTORS. PV5 5 DETAILED ELECTRICAL WIRING SCHEMATIC LIVE PARTS OF PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS OVER 150V TO GROUND SHALL NOT BE ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS WHILE ENERGIZED. PV6 6 **PV LABELS** ALL PV MODULES AND ASSOCIATED EQUIPMENT AND WIRING SHALL BE PROTECTED FROM 7 PV7 BILL OF MATERIALS



PV8

8



ATTACHMENT DETAILS

| ADVANCING ENERGY INDEPENDENCE | |
|-------------------------------|---|
| 5112 Departure Drive, | |
| Raleigh NC 27616 | |
| O: 919.948.6474 | |
| E: info@8msolar.com | |
| Zi milog omsolaricom | |
| | _ |
| Customer Information: | |
| Virginia Blanton | |
| tingilina bianton | |
| 17 Lakeview Dr | |
| Fuquay-Varina, NC 27526 | |
| . aqaay tarma, ito 27020 | _ |
| Customer Signature: | |
| | |
| | |
| | |
| | |
| Sheet Name: | |
| | |
| Duantina Indov | |
| Drawing Index | |
| | |
| JOB NUMBER: | _ |
| | |
| 25-275-PB | |

8MSOLAR

| Date: | Revision: |
|---------------------|---------------|
| 06/02/2025 | А |
| Sheet Size: | Sheet Number: |
| ANSI C 17" X 22" | PV1 |
| | |

DESIGN CRITERIA
WIND SPEED: 120 MPH
GROUND SNOW LOAD: 15 PSF
WIND EXPOSURE FACTOR: B

CONNECTIONS.

VOC UNLESS NOT AVAILABLE.

PHYSICAL DAMAGE.

SOLAR CONTRACTOR

UTILITY COMPANY:
DUKE ENERGY

1. MODULE CERTIFICATIONS INCLUDE UL1703, IEC61646, IEC61370.

DOCUMENTATION AND APPROVED BY THE AHJ.

2. IF APPLICABLE, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE MARKED

IN PLACE OF STANDARD GROUNDING LUGS AS SHOWN IN MANUFACTURER

GROUNDING LUG HOLES PER THE MANUFACTURERS INSTALLATION REQUIREMENTS.

ALL MICROINVERTERS, PHOTOVOLTAIC MODULES, AC COMBINERS, DC-AC CONVERTERS

TERMINALS AND LUGS WILL BE TIGHTENED TO MANUFACTURER TORQUE SPECIFICATIONS

AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER

(WHEN PROVIDED) IN ACCORDANCE WITH NEC CODE 110.14(D) ON ALL ELECTRICAL

7. MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR

SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER NEC690.4(B).

ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING CODE.

AS INDICATED BY DESIGN, OTHER NRTL LISTED MODULE GROUNDING DEVICES MAY BE USED

PERMIT ISSUER (AHJ):
HARNETT COUNTY

SCOPE OF WORK
INSTALLATION OF UTILITY
INTERACTIVE PHOTOVOLTAIC
SOLAR SYSTEM.

VICINITY MAP

TOP VIEW OF THE BUILDING

NABCEP
CERTIFIED

PV Installation
Professional

Ali Buttar
PVIP #031310-32

| | MODULI | E DIMENSIONS | | | |
|------|--------|--------------|-------------------|----------|----------|
| ROOF | PITCH | AZIMUTH | NO. OF MODULES | | 44.6 in. |
| А | 15° | 199° | 14 | | |
| В | 11° | 19° | 11 | 70.9 in. | |
| | | | | | |
| | | | | | |
| | | | | | · |

No vent will be covered by PV modules during the

installation.

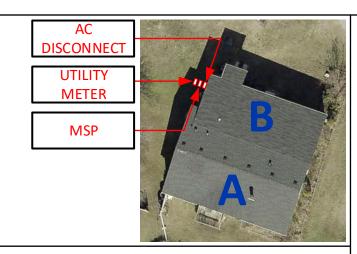
Vent

| PV System Dead Load (Panel + Racking weight) / PV System Area (No. of panels x Weight of panel(lbs.) +Length of racking(ft.) x 1.15 lb.ft) / (No. of panels x Height x Width) = Total psf | | | | | | | | |
|--|------|------|--|--|--|--|--|--|
| ROOF | А | В | | | | | | |
| DEAD LOAD | 2.00 | 2.67 | | | | | | |

2.67

2.90

(PSF)





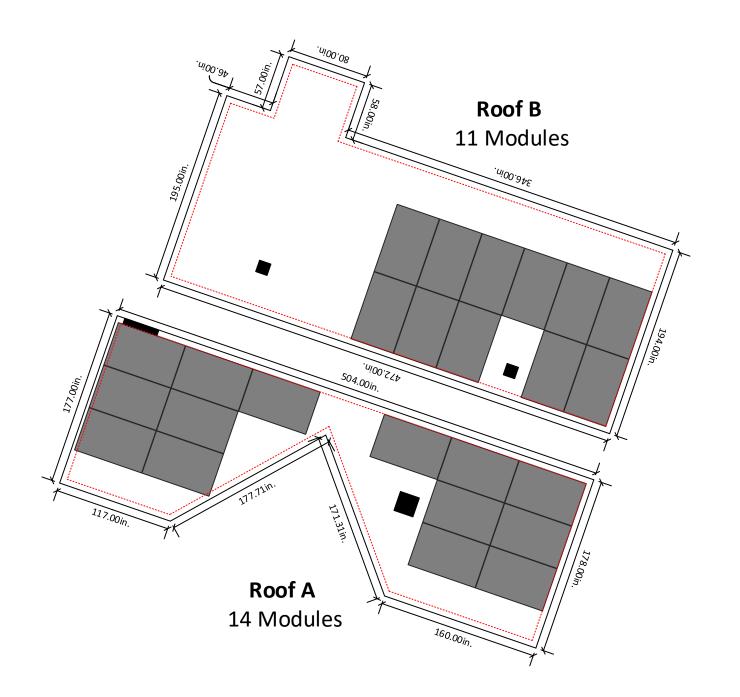
5112 Departure Drive, Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

SYSTEM DETAILS

NUMBER OF PANELS: 25

PANELS MODEL: CANADIAN SOLAR CS6.1-54TM-455H

DC SIZE: 11.375 KW AC SIZE: 11.5 KVA



Customer Information:

Virginia Blanton

17 Lakeview Dr Fuquay-Varina, NC 27526

Customer Signature:

Sheet Name:

Site Layout

JOB NUMBER:

25-275-PB

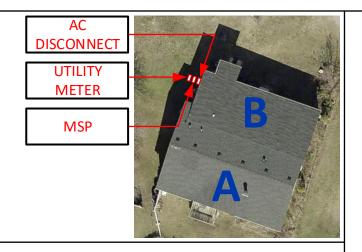
| Date: | Revision: | | | |
|---------------------|---------------|--|--|--|
| 06/02/2025 | А | | | |
| Sheet Size: | Sheet Number: | | | |
| ANSI C 17" X 22" | PV2 | | | |
| | | | | |



6in setback from sides of the roof

N SITE LAYOUT SCALE: 1/8" - 1'

| ROOF DESCRIPTION | | | MODUI | LE DIMENSIONS | STRING LAYOUT | | | | | | |
|------------------|-------|---------|-------------------|---------------|---------------|-----------|-------------------|-----------|-----------|-------------------|-------|
| ROOF | PITCH | AZIMUTH | NO. OF MODULES | | ∤ 44.6 in. ∤— | | | TESLA POV | VERWALL3 | | |
| А | 15° | 199° | 14 | | | Strings # | No. of Modules | Color | Strings # | No. of Modules | Color |
| В | 11° | 19° | 11 | 70.9 in | | String 1 | 11 | | | | |
| | | | | 7 | | String 2 | 07 | | | | |
| | | | | | | String 3 | 07 | | | | |
| | | • | | | | | | | | | |





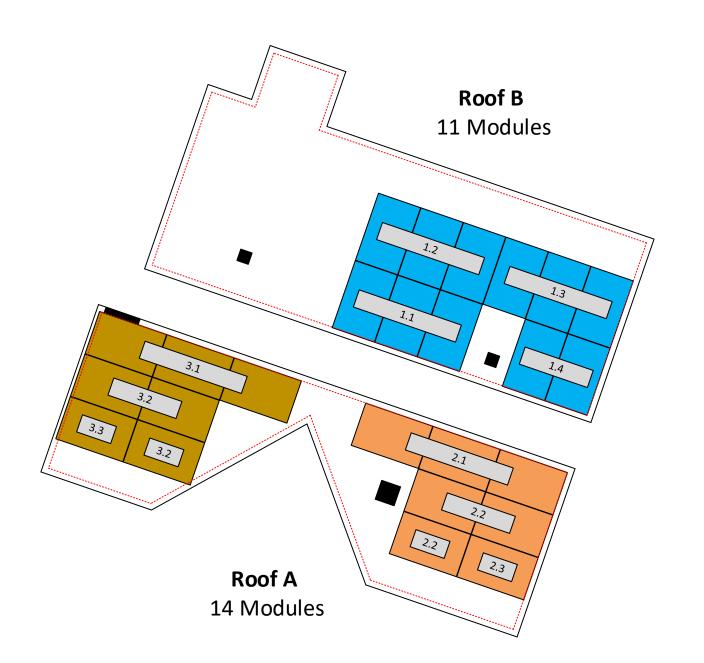
5112 Departure Drive, Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

SYSTEM DETAILS

NUMBER OF PANELS: 25

PANELS MODEL: CANADIAN SOLAR CS6.1-54TM-455H

DC SIZE: 11.375 KW AC SIZE: 11.5 KVA



Customer Information:

Virginia Blanton

17 Lakeview Dr Fuquay-Varina, NC 27526

Sheet Name:

String Mapping

JOB NUMBER:

25-275-PB

| Date: | Revision: |
|---------------------|---------------|
| 06/02/2025 | A |
| | |
| Sheet Size: | Sheet Number: |
| ANSI C 17" X 22" | PV3 |
| | |



CERTIFIED

PV Installation Professional

Ali Buttar PVIP #031310-32

STRING MAPPING
SCALE: 1/8" - 1'

Tesla MCI (Mid Circuit Interrupter)

| STRING CALCULATION | | | | | | | | | |
|--------------------|------------------|-----------------|-----------|-----------|-----------|---------|--|--|--|
| String # | No of Modules | Estimated Power | Imax | Impp | Voc | Vmpp | | | |
| 1 | 11 | 5,005 W | 21.40 Adc | 13.72 Adc | 430.1 Vdc | 550 Vdc | | | |
| 2,3 | 07 | 3,185 W | 21.40 Adc | 13.72 Adc | 273.7 Vdc | 550 Vdc | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| NEC Code (2020) and UL Standard Refrences | | | | | | | |
|---|---|-----------------|-----------------------------------|--|--|--|--|
| Rapid Shut Down | Shut Down NEC 690.12 (A-D), UL1741 Grounding NEC Article 250.30 | | | | | | |
| Disconnecting Means | NEC 690.13 | Conduit Fill | NEC Table C.9, 310.15(B)(3)(a) | | | | |
| Feeder Sizing | NEC Table 310, 15(B)(16, 17) | Interconnection | NEC 705.12 | | | | |
| Over current NEC 690.9 | | | | | | | |

Service Side Work: Power Drop Required

8 M S O L A R

ADVANCING ENERGY INDEPENDENCE

5112 Departure Drive, Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

Customer Information:

Virginia Blanton

17 Lakeview Dr Fuquay-Varina, NC 27526

Customer Signature:

Sheet Name:

Electrical One Line Diagram

JOB NUMBER:

Date:

25-275-PB

Revision:

| 06/02/2025 | А |
|---------------------|---------------|
| Sheet Size: | Sheet Number: |
| ANSI C 17" X 22" | PV4 |
| | |

NABCEP
CERTIFIED

PV Installation
Professional

Ali Buttar

RAPID SHUTDOWN EQUIPPED FROM UTILITY Utility Meter Trench Path → Tesla Powerwall 3 (8) System Backup Gateway 3 Shutdown Switch (E-Stop) **60A BREAKER CONNECTION** INSIDE THE BACKUP GATEWAY 3 60A/2P 200A/2P Sola Deck **60A NON-FUSIBLE** CrawlSpace **AC DISCONNECT** (7)(Battery Section) Trench Path → String 3 200A/2P 200A/2P SUB LOAD PANEL B.B RATING: 200A M.B RATING: 200A MAIN LOAD PANEL B.B RATING: 200A M.B RATING: 200A

- System Size: 11,375W DC
- Battery Total Energy: 13.5 KWh

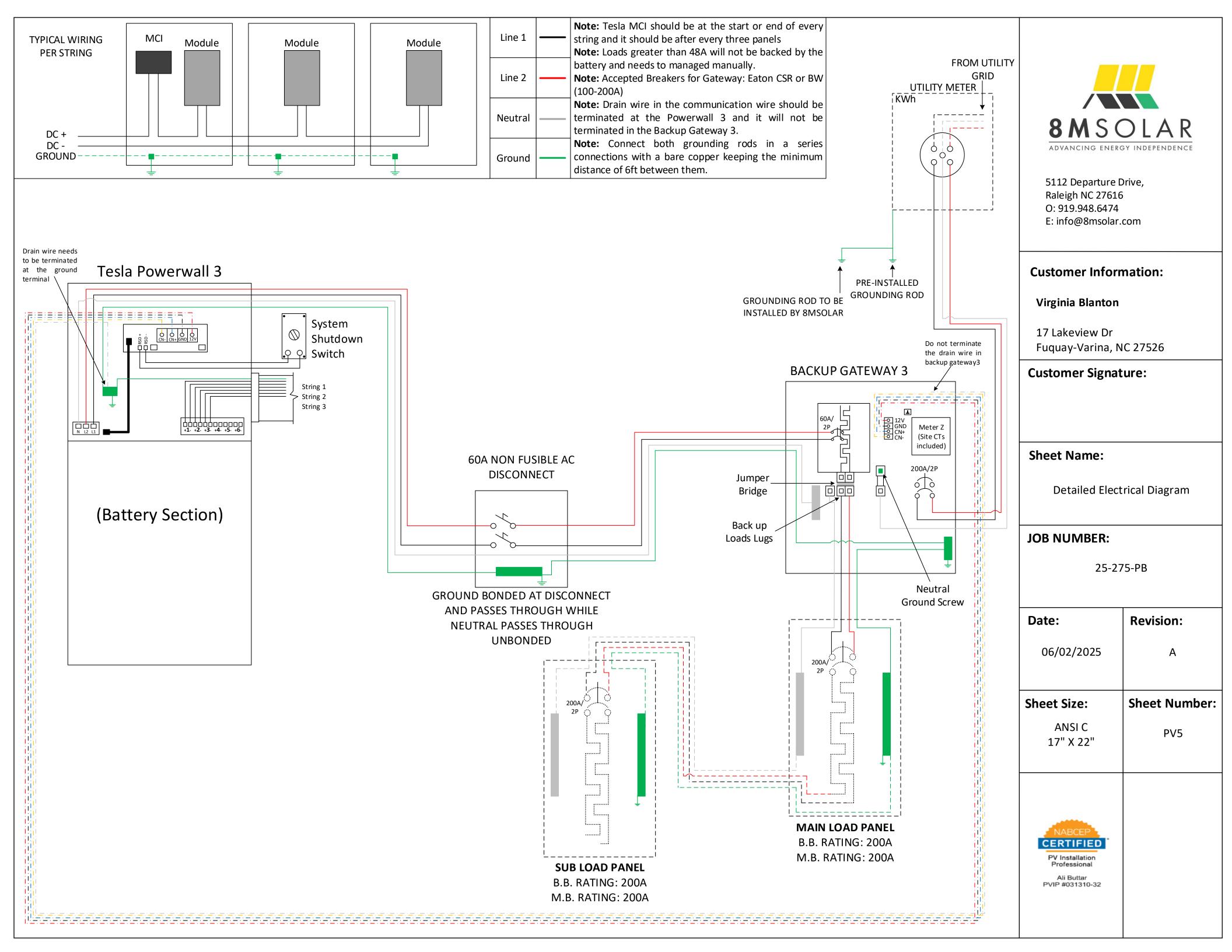
25 X CANADIAN SOLAR CS6.1-54TM-455H

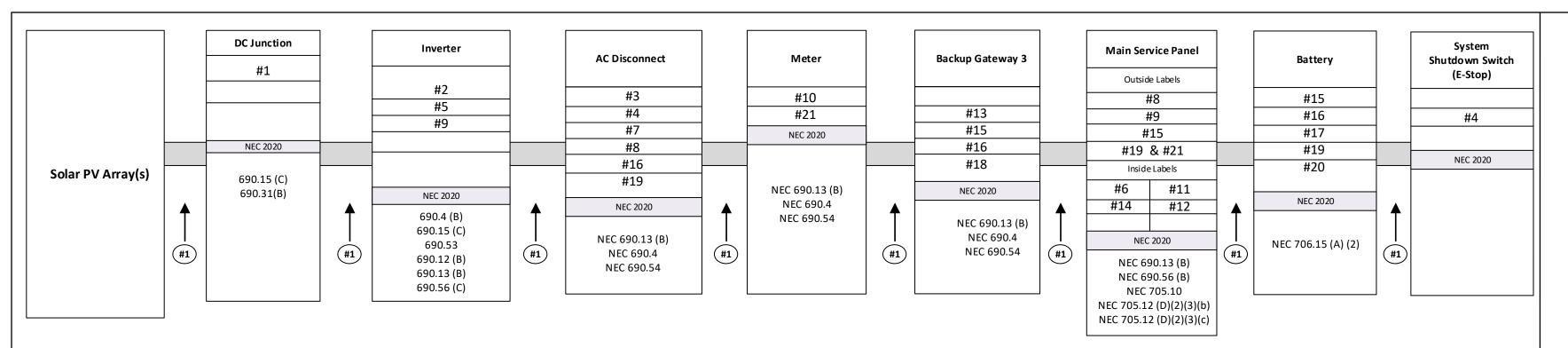
TESLA MCI-2 HIGH CURRENT (Mid Circuit Interrupter)

450W

- (25) Canadian Solar CS6.1-54TM-455H
- (10) Tesla MCI-2 High Current
- (01) Tesla Powerwall 3
- Inverter Output: 48A max @ 240 VAC (each)
- 11.5 kVA AC output max

- Grounding will be done via Pegasus grounding lugs and midclamps to ensure the rail and panels are continuously grounded.
- Rapid Shutdown is included in the Mid Circuit Interrupter, refer to Mid Circuit Interrupter and Inverter attached
 datasheets
- The load center/disconnect will be visible, lockable, accessible to utility linesmen, and properly labeled per NEC requirements. It will be located on the exterior wall next to the utility meter.
- Prepare cable in usual manner.
- Stretch tape and apply half-lapped to form void-free joint.
 Degree of stretch is not critical and may vary in different sections of joint to accomplish void-free application.
- Protect the joint with two half-lapped layers of any scotch vinyl plastic electrical tape.
- Sr.No #Wire Conduit Size | Ground Wire | Amperage 1 2 x #10 PV #10 Bare Cu 21.40 2 3/4" EMT #10 Green Cu 21.40 6 x #10 THHN Cu 60 3 x #6 THHN Cu #6 Green Cu 3 1" EMT 2-conductor shielded (1 twisted pair) 16 AWG 60 3 x #6 THHN Cu #6 Green Cu 4 1" LFMC 2-conductor shielded (1 twisted pair) 16 AWG 5 60 3 x #6 THHN Cu 1" LFNC #6 Green Cu 6 2" PVC 200 3 x #3/0 THHN Cu 7 3 x #3/0 THHN Cu 2" PVC #6 Green Cu 200 8 4-conductor shielded (2 twisted pair) 16 AWG 9 1/2" LFNC 2-conductor shielded (1 twisted pair) 16 AWG





8 M S O L A R

5112 Departure Drive, Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

LABELING AND WARNING SIGNS: NEC 2020

A. PURPOSE

PROVIDE EMERGENCY RESPONDERS WITH APPROPRIATE WARNING AND GUIDANCE WITH RESPECT TO ISOLATING THE SOLAR ELECTRIC SYSTEM. THIS CAN FACILITATE IDENTIFYING ENERGIZED ELECTRICAL LINES THAT CONNECT THE SOLAR PANELS TO THE INVERTER, AS SHOULD NOT BE CUT WHEN VENTING FOR SMOKE REMOVAL.

B. MAIN SERVICE DISCONNECT:

- 1. RESIDENTIAL BUILDINGS- THE MARKING MAY BE PLACED WITHIN THE MAIN SERVICE DISCONNECT. THE MARKING SHALL BE PLACED ON THE OUTSIDE COVER IF THE MAIN SERVICE DISCONNECT IS OPERABLE WITH THE SERVICE PANEL CLOSED.
- 2. COMMERCIAL BUILDINGS- THE MARKINGS SHALL BE PLACED ADJACENT TO THE MAIN SERVICE DISCONNECTCLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS OPERATED
- 3. MARKINGS, VERBIAGE, FORMAT AND TYPE OF MATERIAL
 - a. VERBIAGE: CAUTION; SOLAR ELECTRIC SYSTEM CONNECTED b. FORMAT:
 - (1) WHITE LETTERING ON A RED BACKGROUND
 - (2) MINIMUM 3/8 INCH LETTER HEIGHT
 - (3) ALL LETTERS SHALL BE CAPITALIZED
 - (4) ARIAL OR SIMILAR FONT, NON-BOLD

c. MATERIAL:

- (1) REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (USE UL-969) AS STANDARD FOR WEATHER RATING): DURABLE ADHESIVE MATERIALS MEET THIS REQUIREMENT.
- C. MARKING REQUIREMENTS ON DC CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, DC COMBINERS AND JUNCTION BOXES;
 - 1. MARKING: PLACEMENT, VERBIAGE, FORMAT AND TYPE OF MATERIAL.
 - a. PLACEMENT: MARKINGS SHALL BE PLACED EVERY 10 (TEN)
 FEET ON ALL INTERIOR AND EXTERIOR DC CONDUITS, RACEWAYS,
 ENCLOSURES AND CABLE ASSEMBLIES, AT TURNS ABOVE AND/OR
 BELOW PENETRATIONS, ALL DC COMBINERS AND JUNCTION

BOXES.

- b. VERBIAGE: CAUTION SOLAR CIRCUIT
- c. THE FORMAT AND TYPE OF MATERIAL SHALL ADHERE TO SECTION B-3.B & C ABOVE
- D. INVERTERS ARE NOT REQUIRED TO HAVE CAUTION MARKINGS

#1 WARNING:PHOTOVOLTAIC POWER SOURCE

#2 PHOTOVOLTAIC

DC DISCONNECT

#3 PHOTOVOLTAIC

AC DISCONNECT

RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM

#5 MAXIMUM VOLTAGE 550Vdc

MAX. RATED CIRCUIT CURRENT 13.72Adc

OF THE CHARGE CONTOLLER OR

DC-TO-DC CONVERTER (IF INSTALLED)

#6 PHOTOVOLTIVC POWER SOURCE
OPERATING AC VOLTAGE 240 V

MAXIMUN OPERATING AC OUTPUT CURRENT 48 A

AC DISCONNECT

PHOTOVOLTAIC SYSTEM
POWER SOURCE

RATED AC
OUTPUT CURRENT
NOMINAL OPERATING
AC VOLTAGE

240 VOLTS

#8

! WARNING

ELECTRIC SHOCK HAZARD

TERMINAL ON THE LINE AND LOAD

SIDES MAY BE ENERGIZED IN THE

OPEN POSITION



#10 ! WARNING ! THREE POWER SOURCES SOURCES: UTILITY GRID, BATTERY AND PV SOLAR ELECTRIC SYSTEM

#11 WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

#12 WARNING

POWER SOURCE
OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

#13 ! WARNING SOLAR ELECTRIC

CIRCUIT BREAKER
IS BACKFEED

#14 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

#15
SOLAR AC DISCONNECT
LOCATED AT NORTH-WEST SIDE
WALL OF THE HOUSE BESIDE
THE UTILITY METER

#16
SERIVCE DISCONNECT LOCATED
IN THE BACKUP GATEWAY 3
PANEL

#17 BATTERY

#18

MAIN BATTERY
SYSTEM DISCONNECT

#19
BATTERY DISCONNECT LOCATED
IN THE BACKUP GATEWAY 3
PANEL

#20 ENERGY STORAGE SYSTEM DISCONNECT NOMINAL ESS AC VOLTAGE 240V NOMINAL ESS DC VOLTAGE 550V AVAILABLE FAULT CURRENT DERIVED FROM THE ESS DATE CALCULATION PERFORMED 06/02/2025

Customer Information:

Virginia Blanton

17 Lakeview Dr Fuquay-Varina, NC 27526

Customer Signature:

Sheet Name:

PV Labels

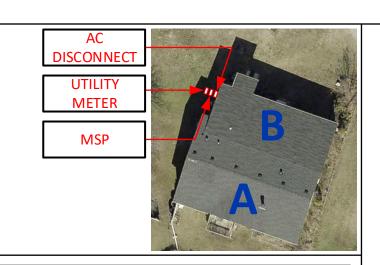
JOB NUMBER:

25-275-PB

| Date: | Revision: | | |
|---------------------|---------------|--|--|
| 06/02/2025 | А | | |
| Sheet Size: | Sheet Number: | | |
| ANSI C 17" X 22" | PV6 | | |
| | | | |



| ROOF DESCRIPTION | | | | MODULE DIMENSIONS | | |
|------------------|-------|---------|-------------------|-------------------|-------------------------------------|--|
| ROOF | PITCH | AZIMUTH | NO. OF MODULES | 44.6 in. | Rails and Splices : PSR-B84 (BLACK) | Roof Attachment : Pegasus InstaFlash2 |
| А | 15° | 199° | 14 | | Rafter Spacing : 16 in | There is one layer of shingles |
| В | 11° | 19° | 11 | 70.9 ir | | Roofing material is asphalt shingles |
| | | | | | Attachment Chan, Eft. 4 in | The reaf is leasted in 120mmh wind range |
| | | | | | Attachment Span: 5 ft. 4 in. | The roof is located in 120mph wind zone |





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Customer Information:

Virginia Blanton

17 Lakeview Dr Fuquay-Varina, NC 27526

Customer Signature:

Sheet Name:

Bill of Material

JOB NUMBER:

CERTIFIED

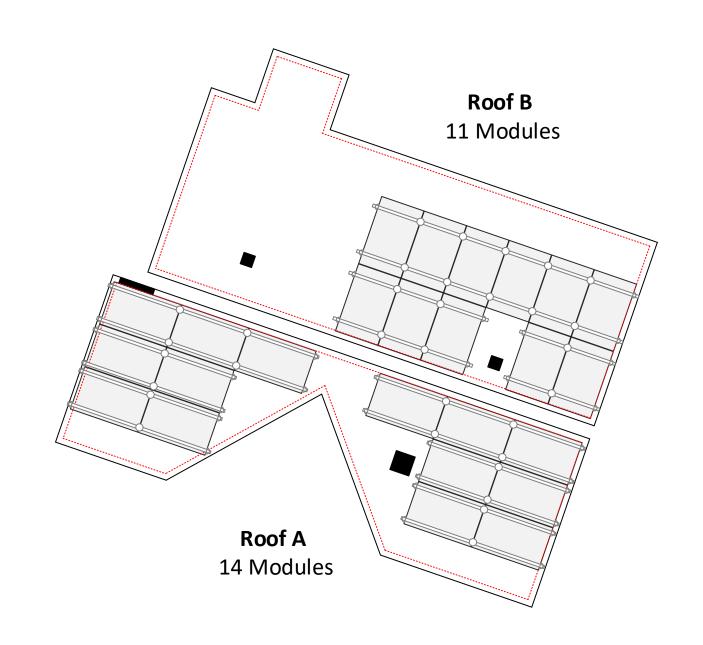
PV Installation Professional

Ali Buttar PVIP #031310-32

25-275-PB

| Date: | Revision: |
|---------------------|--------------|
| 06/02/2025 | А |
| Sheet Size: | Sheet Number |
| ANSI C 17" X 22" | PV7 |
| NARCEP | |

| | PV LABELS | | |
|--------|-----------|-----|--|
| Sr. No | Code | Qty | |
| 01 | 02-314 | 12 | |
| 02 | 03-301 | 01 | |
| 03 | 03-302 | 01 | |
| 04 | 02-316 | 02 | |
| 05 | 03-308 | 01 | |
| 06 | 03-390 | 01 | |
| 07 | 03-306 | 01 | |
| 08 | 05-215 | 02 | |
| 09 | 05-230 | 02 | |
| 10 | 03-230 | 01 | |
| 11 | 05-372 | 01 | |
| 12 | 05-216 | 01 | |
| 13 | 05-342 | 01 | |
| 14 | 07-111 | 01 | |
| 15 | 8M-001 | 03 | |
| 16 | 8M-002 | 03 | |
| 17 | 03-395 | 01 | |
| 18 | 04-304 | 01 | |
| 19 | 8M-004 | 03 | |
| 20 | 03-511 | 01 | |



RAILS AND MOUNTING SYSTEM

- 44 x PSR-B84: Pegasus Rail, Black, 84" (7 Feet)
- 26 x PSR-SPLS: Pegasus Bonded, Structural Splice
- 32 x PSR-MCB: Pegasus Multiclamp, Mid/End, 30 to 40 mm, Black
- 36 x PSR-HEC: Pegasus Hidden End Clamp
- 15 x PSR-LUG: Pegasus Grounding Lug
- 38 x PSR-WMC: Pegasus Wire Management Clip
- 05 x PSR-CBG: Pegasus Cable Grip
- 36 x PSR-CAP: Pegasus End Cap
- 68 x PIF2-BDT: Pegasus InstaFlash2 Deck or Rafter Attach with Dovetail T-Bolt
- 200 x PF-DRW85: Pegasus Fastener Deck-Rafter 85mm
- 50 x S6405: Heyco Wire Clips
- 02 x GEOC GC66100: SEALANT 2300 10.30Z CLEAR (20) GEOCEL 230 TRIPOLY CLEAR
- 15 x MULTI 32.0017P0001-UR: PV MC4 MALE (10) [1000]
- 15 x MULTI 32.0016P0001-UR: PV MC4 FEMALE (10) [1000]

SOLAR MODULES

• 25 x Canadian Solar CS6.1-54TM-455H

INVERTER & SUPPORTING ITEMS

- 01 x 1707000-00-J :Tesla Powerwall 3
- 10 x 1879359-15-B: Tesla MCI-2 High Current
- 01 x 1841000-01-C: Backup GateWay 3
- 01 x 1549184-00-X: 02" Conduit Hub Kit

WIRE

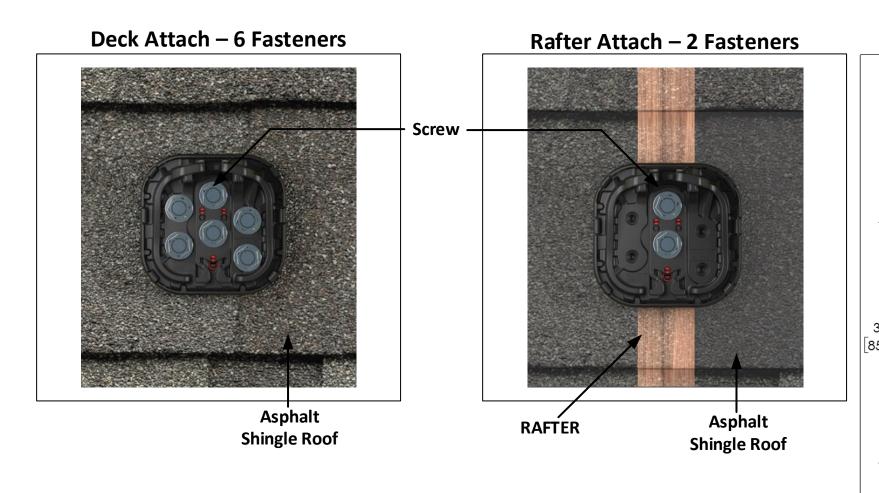
• 01 x WIRPV 2KVPV10STRBLK500: #10 PV WIRE BLK (Cu) 500ft

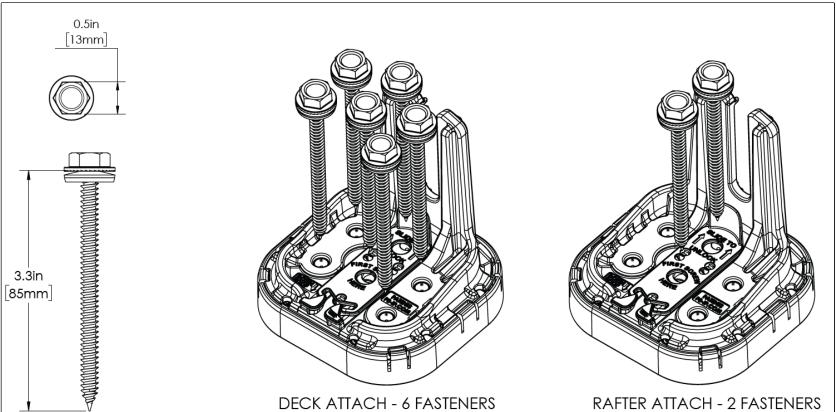
ELECTRICAL ITEMS

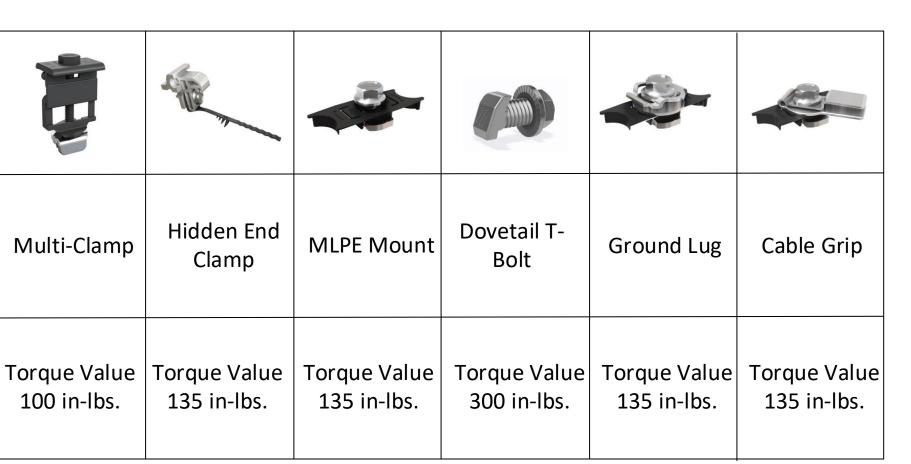
- 01 x BW2200: Gateway Main Breaker-Eaton BW2200
- 01 x BR260: Eaton BR 60/2 for Backup Gateway 3
- 01 x DG222URB: 250volt/60amp/2pole non fusible disconnect (NEMA
- 01 x EATON M22PVK01: 22.5MM PB EMG STOP W/ CONTACTOR
- 01 x Eaton M22I1PG: SFC MTG ENC Emergency Stop Enclosure
- 01 x EZSLR JB-1.2: SolaDeck

Roof Flashings

- 12 x PSCA-0MB0: Roof Flashing Conduit Supports
- 12 x BPT 921S: 3/4" 1H EMT PIPE STRAP STEEL

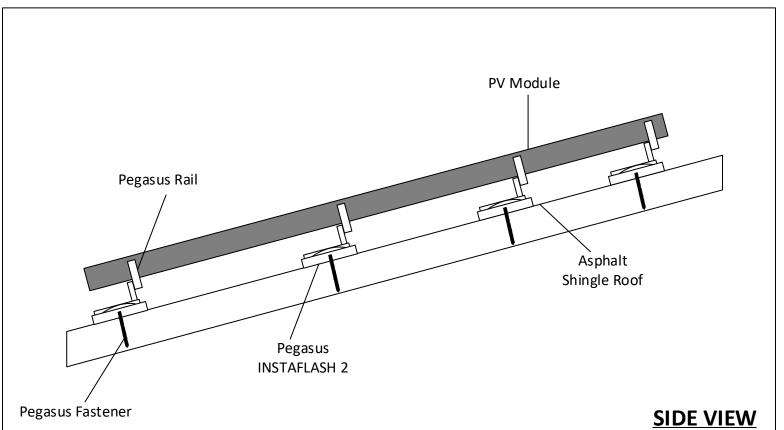






Multi-Clamp

100 in-lbs.



| PV Dead Load | | |
|--------------|--|--|
| Roof A | PV System Dead Load (Panel + Racking weight) / PV System Area (14 panels x 50.7lbs./panel + 166 ft. of racking x 1.17 lb.ft) / (14 panels x 5.9' x 3.71') = 2.90 psf | |
| Roof B | PV System Dead Load (Panel + Racking weight) / PV System Area (11 panels x 50.7lbs./panel + 83 ft. of racking x 1.17 lb.ft) / (11 panels x 5.9' x 3.71') = 2.67 psf | |



5112 Departure Drive, Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

Customer Information:

Virginia Blanton

17 Lakeview Dr Fuquay-Varina, NC 27526

Customer Signature:

Sheet Name:

Attachment Details

JOB NUMBER:

CERTIFIED PV Installation Professional Ali Buttar PVIP #031310-32

25-275-PB

| Date: | Revision: |
|---------------------|---------------|
| 06/02/2025 | А |
| | |
| Sheet Size: | Sheet Number: |
| ANSI C 17" X 22" | PV8 |
| 17 X 22 | |
| | |
| **** | |
| NARCEP | |





TOPHiKu6 (All-Black)

N-type TOPCon Technology

445 W ~ 470 W

CS6.1-54TM-445 | 450 | 455 | 460 | 465 | 470H

MORE POWER



Module power up to 470 W Module efficiency up to 23.0 %



Excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Lower temperature coefficient (Pmax): -0.29%/°C, increases energy yield in hot climate



Lower LCOE & system cost

MORE RELIABLE



Minimizes micro-crack impacts



Heavy snow load up to 8100 Pa, wind load up to 6000 Pa*



Industry Leading Product Warranty on Materials and Workmanship*

Assembled in the US



Linear Power Performance Warranty*

1st year power degradation no more than 1% Subsequent annual power degradation no more than 0.4%

*Subject to the terms and conditions contained in the applicable Canadian Solar Limited Warranty Statement. Also this 25-year limited product warranty is available only for products installed and operating on rooftops in certain regions.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system ISO 14001:2015 / Standards for environmental management system ISO 45001: 2018 / International standards for occupational health & safety IEC62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 IEC 61701 / IEC 62716 / IEC 60068-2-68 Take-e-way





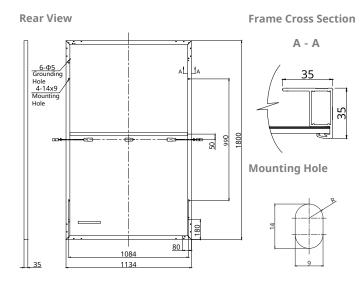


* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates available for your Product and applicable in the regions in which the products will be used.

CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 22 years, it has successfully delivered over 100 GW of premium-quality solar modules across the world.

^{*} For detailed information, please refer to the Installation Manual.

ENGINEERING DRAWING (mm)



ELECTRICAL DATA | STC*

| CS6.1-54TM | 445H | 450H | 455H | 460H | 465H | 470H |
|--|-------------|------------|----------------------|----------|------------|----------|
| Nominal Max. Power (Pmax) | 445 W | 450 W | 455 W | 460 W | 465 W | 470 W |
| Opt. Operating Voltage (Vmp) | 32.8 V | 33.0 V | 33.2 V | 33.4 V | 33.6 V | 33.8 V |
| Opt. Operating Current (Imp) | 13.59 A | 13.66 A | 13.72 A | 13.78 A | 13.85 A | 13.91 A |
| Open Circuit Voltage (Voc) | 38.7 V | 38.9 V | 39.1 V | 39.3 V | 39.5 V | 39.7 V |
| Short Circuit Current (Isc) | 14.48 A | 14.55 A | 14.61 A | 14.69 A | 14.77 A | 14.86 A |
| Module Efficiency | 21.8% | 22.0% | 22.3% | 22.5% | 22.8% | 23.0% |
| Operating Temperature | -40°C ~ | +85°C | | | | |
| Max. System Voltage | 1500V (| IEC/UL) | or 1000\ | √ (IEC/U | L) | |
| Module Fire Performance | | | 30 1500\ S C (IEC | | E 2 (UL (| 61730 |
| Max. Series Fuse Rating | 25 A | | | | | |
| Application Classification | Class A | | | | | |
| Power Tolerance | 0 ~ + 10 | W | | | | |
| * Under Standard Test Conditions (STC) | of irradian | co of 1000 | W//m2 cnc | ctrum AM | 1 5 and co | II tompo |

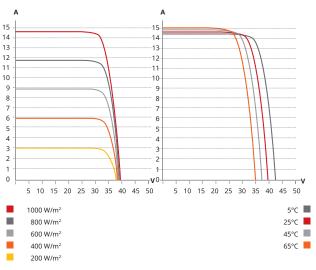
^{*} Under Standard Test Conditions (STC) of irradiance of 1000 W/m2, spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA | NMOT*

| CS6.1-54TM | 445H | 450H | 455H | 460H | 465H | 470H |
|------------------------------|---------|---------|---------|---------|---------|---------|
| Nominal Max. Power (Pmax) | 335 W | 339 W | 343 W | 347 W | 351 W | 354 W |
| Opt. Operating Voltage (Vmp) | 30.9 V | 31.1 V | 31.3 V | 31.5 V | 31.7 V | 31.9 V |
| Opt. Operating Current (Imp) | 10.85 A | 10.91 A | 10.96 A | 11.02 A | 11.07 A | 11.12 A |
| Open Circuit Voltage (Voc) | 36.5 V | 36.7 V | 36.9 V | 37.1 V | 37.3 V | 37.5 V |
| Short Circuit Current (Isc) | 11.68 A | 11.74 A | 11.79 A | 11.85 A | 11.92 A | 11.99 A |

^{*} Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m² spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

CS6.1-54TM-455H / I-V CURVES



MECHANICAL DATA

| Specification | Data |
|-----------------------|--|
| Cell Type | TOPCon cells |
| Cell Arrangement | 108 [2 X (9 X 6)] |
| Dimensions | 1800 × 1134 × 35 mm |
| Dimensions | (70.9 × 44.6 × 1.38 in) |
| Weight | 23 kg (50.7 lbs) |
| Front Cover | 3.2 mm tempered glass with anti-reflective coating |
| Frame | Anodized aluminium alloy |
| J-Box | IP68, 3 bypass diodes |
| Cable | 4 mm ² (IEC), 12 AWG (UL) |
| Connector | T6, MC4, MC4-EVO2 or MC4- EVO2A |
| Cable Length | 1550 mm (61.0 in) (+) / |
| (Including Connector) | 1100 mm (43.3 in) (-) |
| Per Pallet | 30 pieces |
| Per Container (40' HQ |)720 pieces |

TEMPERATURE CHARACTERISTICS

| Specification | Data |
|--------------------------------------|--------------|
| Temperature Coefficient (Pmax) | -0.29 % / °C |
| Temperature Coefficient (Voc) | -0.25 % / °C |
| Temperature Coefficient (Isc) | 0.05 % / °C |
| Nominal Module Operating Temperature | 42 ± 3°C |

PARTNER SECTION

^{*} The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. CSI Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice. Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

Powerwall 3

Power Everything

Powerwall 3 is a fully integrated solar and battery system, designed to accelerate the transition to sustainable energy. Customers can receive whole home backup, cost savings, and energy independence by producing and consuming their own energy while participating in grid services. Once installed, customers can manage their system using the Tesla App to customize system behavior to meet their energy goals.

Powerwall 3 achieves this by supporting up to 20 kW DC of solar and providing 11.5 kW AC of continuous power per unit. It has the ability to start heavy loads up to 150 A LRA, meaning a single unit can support the power needs of most homes. Powerwall 3 is designed for mass production, fast and efficient installations, easy system expansion, and simple connection to any electrical service.



Powerwall 3 Technical Specifications

System Technical Specifications

| 1707000-xx-y |
|--|
| 120/240 VAC |
| Split phase |
| 60 Hz |
| Configurable up to 60 A |
| 89% 1,2 |
| 97% ³ |
| Backup Gateway 2, Backup Switch |
| Wi-Fi (2.4 and 5 GHz), Dual-port switched Ethernet, Cellular (LTE/4G 4) |
| Dry contact relay, Rapid Shutdown (RSD) certified switch and 2-pin connector, RS-485 for meters |
| Revenue Grade (+/- 0.5%) |
| Integrated arc fault circuit interrupter (AFCI), Isolation Monitor Interrupter (IMI), PV Rapid Shutdown (RSD) using Tesla Mid-Circuit Interrupters |
| Tesla Mobile App |
| 10 years |
| |

Solar Technical Specifications

| Maximum Solar STC Input | 20 kW |
|---|-------------------|
| Withstand Voltage | 600 V DC |
| PV DC Input Voltage Range | 60 – 550 V DC |
| PV DC MPPT Voltage Range | 150 — 480 V DC |
| MPPTs | 6 |
| Maximum Current per MPPT (I _{mp}) | 13 A ⁵ |
| Maximum Short Circuit Current per MPPT (I _{sc}) | 15 A ⁵ |

Battery Technical Specifications

| 13.5 kWh AC ² |
|-------------------------------------|
| 11.5 kW AC |
| 5 kW AC |
| 0 - 1 (Grid Code configurable) |
| 48 A |
| 10 kA |
| 150 A LRA |
| Up to 4 Powerwall 3 units supported |
| |

¹Typical solar shifting use case.

 $^{^2\,\}mbox{Values}$ provided for 25°C (77°F), at beginning of life. 3.3 kW charge/discharge power.

³ Tested using CEC weighted efficiency methodology.

⁴ Cellular connectivity subject to network service coverage and signal strength.

 $^{^{5}}$ Where the DC input current exceeds the MPPT rating, a jumper can be used to combine two MPPTs into a single input to intake DC current up to 26 A I $_{\rm MP}$ / 30 A I $_{\rm SC}$.

Powerwall 3 Technical Specifications

Environmental Specifications

| Operating Temperature | -20°C to 50°C (-4°F to 122°F) 6 |
|-------------------------|--|
| Operating Humidity (RH) | Up to 100%, condensing |
| Storage Temperature | -20°C to 30°C (-4°F to 86°F), up to 95% RH, non-condensing, State of Energy (SOE): 25% initial |
| Maximum Elevation | 3000 m (9843 ft) |
| Environment | Indoor and outdoor rated |
| Enclosure Rating | NEMA 3R |
| Ingress Rating | IPX7 (Battery & Power Electronics) IPX5 (Wiring Compartment) |
| Pollution Rating | PD3 |
| Operating Noise @ 1 m | <50 db(A) typical <62 db(A) maximum |

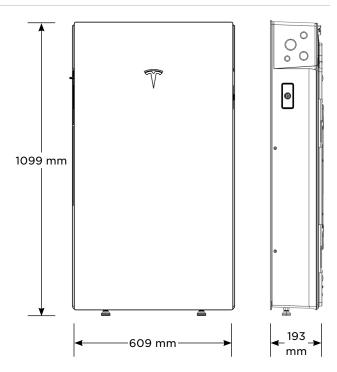
⁶ Performance may be de-rated at operating temperatures above 40°C (104°F).

Compliance Information

| Certifications | UL 1642, UL 1699B, UL 1741, UL 1741 SA, UL 1741 SB, UL 3741, UL 1973, UL 1998, UL 9540, IEEE 1547-2018, IEEE 1547.1, UN 38.3 |
|-----------------|--|
| Grid Connection | United States |
| Emissions | FCC Part 15 Class B |
| Environmental | RoHS Directive 2011/65/EU |
| Seismic | AC156, IEEE 693-2005 (high) |
| Fire Testing | Meets the unit level performance criteria of UL 9540A |

Mechanical Specifications

| Dimensions | 1099 x 609 x 193 mm (43.25 x 24 x 7.6 in) |
|------------------|---|
| Weight | 130 kg (287 lb) |
| Mounting Options | Floor or wall mount |



Solar Shutdown Device Technical Specifications

The Solar Shutdown Device is a Mid-Circuit Interrupter (MCI) and is part of the PV system rapid shutdown (RSD) function in accordance with Article 690 of the applicable NEC. When paired with Powerwall 3, solar array shutdown is initiated by any loss of AC power.

| Electrical | Model | MCI-1 | MCI-2 |
|------------------------------|---|---|--|
| Specifications | Nominal Input DC Current Rating (I _{MP}) | 12 A | 13 A |
| | Maximum Input Short Circuit Current (I _{sc}) | 19 A | 17 A |
| | Maximum System Voltage (PVHCS) | 600 V DC | 1000 V DC ⁷ |
| | ⁷ Maximum System Voltage is limited by Powerwall t | o 600 V DC. | |
| RSD Module | Maximum Number of Devices per String | 5 | 5 |
| Performance | Control | Power Line Excitation | Power Line Excitation |
| | Passive State | Normally Open | Normally Open |
| | Maximum Power Consumption | 7 W | 7 W |
| | Warranty | 25 years | 25 years |
| | | | |
| Environmental Specifications | Operating Temperature | -40°C to 50°C (-40°F to 122°F) | -45°C to 70°C (-49°F to 158°F) |
| • | Storage Temperature | -30°C to 70°C (-22°F to 158°F) | -30°C to 70°C (-22°F to 158°F) |
| | Enclosure Rating | NEMA 4X / IP65 | NEMA 4X / IP65 |
| Mechanical | Electrical Connections | MC4 Connector | MC4 Connector |
| Specifications | Housing | Plastic | Plastic |
| | Dimensions | 125 x 150 x 22 mm (5 x 6 x 1 in) | 173 x 45 x 22 mm (6.8 x 1.8 x 1 in) |
| | Weight | 350 g (0.77 lb) | 120 g (0.26 lb) |
| Mour | Mounting Options | ZEP Home Run Clip M4 Screw (#10) M8 Bolt (5/16") Nail / Wood screw | Wire Clip |
| Compliance Information | Certifications | UL 1741 PVRSE, UL 3741, PVRSA (Photovoltaic Ra | |
| | RSD Initiation Method | External System Shutdo Powerwall 3 Enable Swit | |

UL 3741 PV Hazard Control (and PVRSA) Compatibility

The following categories of solar module meet the UL 3741 PVHCS listing when installed with Powerwall 3 and Solar Shutdown Devices.

| Tesla Solar Roof | PV Hazard Control System: BIPV compliance document |
|---|--|
| Tesla or Hanwha (Q.Peak Duo BLK or BLK-G6+) Modules certified for use with ZEP racking | PV Hazard Control System: ZS PVHCS compliance document |
| Other module and racking combinations | PV Hazard Control System: Generic PV Array compliance document |

Backup Switch

_

The Tesla Backup Switch controls connection to the grid in a Powerwall system, and can be easily installed behind the utility meter or in a standalone meter panel downstream of the utility meter.

The Backup Switch automatically detects grid outages, providing a seamless transition to backup power. It communicates directly with Powerwall, allowing home energy usage monitoring from any mobile device with the Tesla app.

Performance Specifications

| 1624171-xx-y |
|----------------------------------|
| 200 A, 120/240 V split phase |
| 22 kA with breaker ¹⁰ |
| CAN |
| Revenue accurate (+/- 0.5%) |
| 21 years |
| 10 years |
| |

¹⁰ Breaker maximum supply short circuit current rating must be equal to or greater than the available fault current.

Environmental Specifications

| Operating Temperature | -40°C to 50°C (-40°F to 122°F) |
|-----------------------|--------------------------------|
| Storage Temperature | -40°C to 85°C (-40°F to 185°F) |
| Enclosure Rating | NEMA 3R |
| Pollution Rating | PD3 |

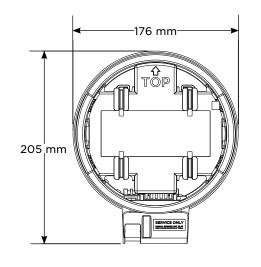
Compliance Information

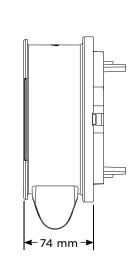
| Safety Standards | USA: UL 414, UL 2735, UL 916, CA Prop 65 |
|------------------|--|
| Emmissions | FCC, ICES |

Mechanical Specifications

| 176 x 205 x 74 mm (6.9 x 8.1 x 2.9 in) |
|--|
| 2.8 lb |
| ANSI Type 2S, ringless or ring type |
| Contactor manual override 11 |
| Reset button |
| 1/2-inch NPT |
| |

 $^{^{\}rm 11}$ Manually overrides the contactor position during a service event.

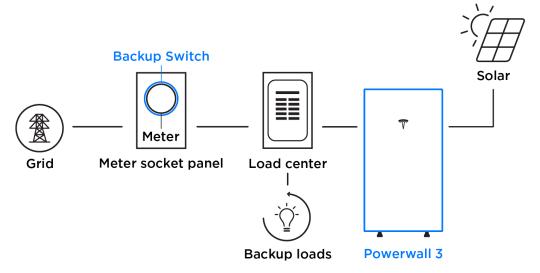




Powerwall 3 Example System Configurations

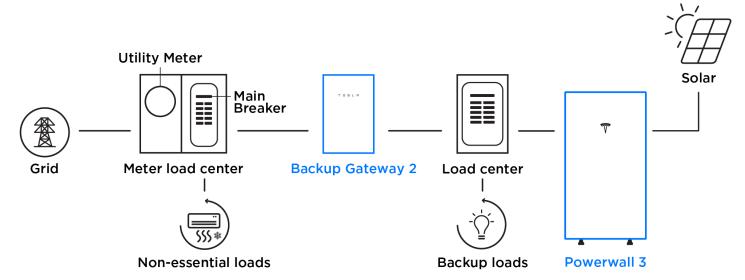
Powerwall 3 with Backup Switch

Whole Home Backup



Powerwall 3 with Backup Gateway 2

Partial Home Backup



Gateway 3

Tesla Gateway 3 controls connection to the grid in a Powerwall system, automatically detecting outages and providing seamless transition to backup power. It provides energy monitoring that is used by Powerwall for solar self-consumption, time-based control, and backup operation.

Performance Specifications

| Model Number | 1841000-01-y |
|---|---|
| Nominal Grid Voltage | 120/240 V AC |
| Grid Configuration | Split phase |
| Grid Frequency | 60 Hz |
| Continuous Current Rating | 200 A |
| Maximum Supply Short Circuit Current | 22 kA with Square D or Eaton main breaker 25 kA with Eaton main breaker ¹ |
| IEC Protective Class | Class I |
| Overvoltage Category | Category IV |
| ¹ Only Eaton CSR or BWH ma | ain breakers are 25 kA rated |

| AC Meter | Revenue accurate (+/- 0.5%) |
|----------------------------------|---|
| Communication | CAN |
| User Interface | Tesla App |
| Backup Transition | Automatic disconnect for seamless backup |
| Overcurrent Protection Device | 100–200 A Service entrance rated Eaton CSR, BWH, or BW, or Square D QOM breakers |
| Internal Panelboard | 200 A 8-space/16 circuit breakers Eaton BR, Siemens QP, or Square D HOM breakers rated to 10–125A |
| Warranty | 10 years |

Environmental Specifications

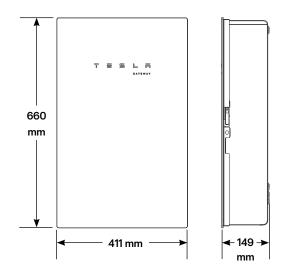
| Operating Temperature | -20°C to 50°C (-4°F to 122°F) |
|-------------------------|-------------------------------|
| Operating Humidity (RH) | Up to 100%, condensing |
| Maximum Elevation | 3000 m (9843 ft) |
| Environment | Indoor and outdoor rated |
| Enclosure Type | NEMA 3R |

Compliance Information

| Certifications | UL 67, UL 869A, UL 916, UL 1741 PCS, CSA 22.2 107.1, CSA 22.2 29 |
|----------------|---|
| Emmissions | FCC Part 15, ICES 003 |

Mechanical Specifications

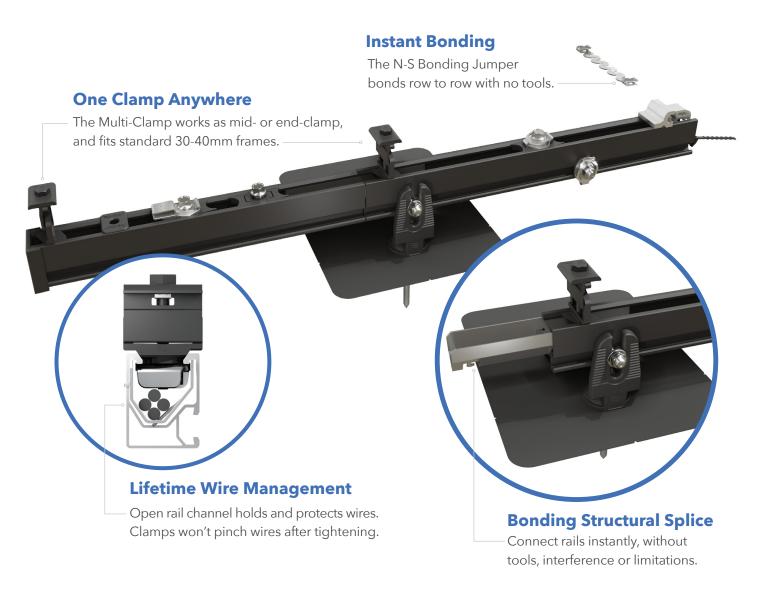
| Dimensions | 660 x 411 x 149 mm (26 x 16 x 6 in) | | |
|------------------|--|--|--|
| Weight | 16.3 kg (36 lb) | | |
| Mounting options | Wall mount | | |



Gateway 3 Datasheet 2024



RAIL SYSTEM



Next-Level Solar Mounting

A complete system for hassle-free rooftop installation, from watertight mounts to lifetime wire management.



Simplicity

1/2"socket for everything. One clamp for mid or end. No tool splicing and bonding. Easy wire management.



Code Compliant

UL 2703 listed LTR-AE-001-2012 listed Class A fire rating for any slope ASCE 7-16 PE Certified



Premium Aesthetics

The narrowest panel gap available. Optional Hidden End Clamps and End Caps provide a flush look on the edge of the array.



Watertight for Life

Secured on industry-leading Pegasus Mounts, for composite shingle and tile roofs. Backed by a 25-year warranty.



RAIL SYSTEM









Dovetail T-bolt

Pegasus Rail

Available in 14' and 7' lengths for easy layout and shipping.

Open-channel design holds MC4 connectors, PV wire and trunk cables.

Black and Mill finish



Pegasus Max Rail

Maximum-strength design.

Meets specifications for high
snow-load and hurricane zones.

Black and Mill finish



Splice and Max Splice

Installs by hand.
Works over mounts.

Structurally connects and bonds rails automatically; UL2703 listed as reusable.

Dovetail shape for extra strength.
Uses ½" socket.





Multi-Clamp

Fits 30-40mm PV frames, as mid- or end-clamp.

Twist-locks into position; doesn't pinch wires in rail.

Bonds modules to rail; UL2703 listed as reusable



Offers premium edge appearance. Preinstalled pull-tab grips rail edge, allowing easy, one-hand installation. Tucks away for reuse.

Ground Lug

Holds 6 or 8 AWG wire.

Mounts on top or side of rail.

Assembled on MLPE Mount.

UL2703 listed as reusable.

N-S Bonding Jumper

Installs by hand, eliminates row-to-row copper wire.

UL2703 listed as reusable only with Pegasus Rail.









MLPE Mount

Secures and bonds most micro-inverters and optimizers to rail.

Connectors and wires easily route underneath after installation.

UL2703 listed as reusable.

Cable Grip

Secures four PV wires or two trunk cables. Stainless-steel backing provides durable grip.

Eliminates sagging wires.

Wire Clip

Hand operable.
Holds wires in channel.
Won't slip.

End Cap and Max End Cap

Fits flush to PV module and hides raw or angled cuts.

Hidden drain quickly clears water from rail.

Certifications:

- UL 2703, Edition 1
- LTR-AE-001-2012
- ASCE 7-16 PE certified
- Class A fire rating for any slope roof



Quickly calculate the most efficient layout, spans and materials needed to suit your job. Visit the Pegasus Customer Portal. pegasussolar.com/portal

Patents pending. All rights reserved. ©2021 Pegasus Solar Inc.

| LOAD | | SPAN | | | |
|------------|------------|------|----|--------------|------------------|
| SNOW (PSF) | WIND (MPH) | 32" | 4′ | 6′ | 8′ |
| | 120 | | | | |
| 0 | 160 | | | | |
| | 190 | | | | |
| | 140 | | | | |
| 15 | 160 | | | | |
| | 190 | | | | |
| 30 | 160 | | | | |
| 30 | 190 | | | | |
| 45 | 190 | | | | |
| 70 | 190 | | | | |
| 110 | 190 | | | PEGASUS RAIL | PEGASUS MAX RAIL |

For reference only. Spans above are calculated using ASCE 7-16 for a Gable Roof, Exposure Category B, 7-20deg roof angle, 30ft mean roof height with non-exposed modules. For PE certified span tables, visit www.pegasussolar.com/spans.



INSTAFLASH 2



The Ultimate Comp Roof Attachment

Simple to use. Works for rafter or deck attach. No caulking, no ripped shingles, no mess. Pre-installed sealant acts as a chemical flashing and fills all gaps, voids, and butt joints for an instant, watertight seal.



25-Year Warranty

Manufactured with advanced materials and coatings to outlast the roof itself



Code Compliant

Fully IBC/CBC code compliant Exceeds ASCE 7-22 standards UL2703 certified



Self-Healing

Proprietary non-hardening sealant will flex and reseal over years of thermal expansion and contraction



Larger Spans

Extra-large L-foot and proprietary screws result in larger spans between mounts



INSTAFLASH® 2



Install screw through center hole, and drive into roof until InstaFlash2 pushes through cage and seats onto the roof.

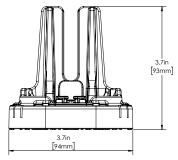


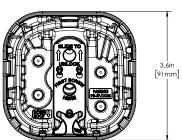
If screw hits rafter, drive second screw in hole above. Ensure screws are embedded at least 2.5" into rafter. Installation complete.



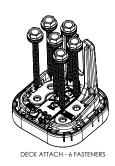


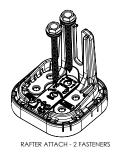












| SPECIFICATIONS | INSTAFLASH KITS | | | | | |
|-----------------------------|--|---------------------------------------|------------------|--------------------------------------|--|--|
| | PIF2-B0 | PIF2-BDT | PIF2-M0 | PIF2-MDT | | |
| Finish | Black | | Mill | | | |
| Kit Contents | Black InstaFlash2 | Black InstaFlash2, Dovetail T-bolt | Mill InstaFlash2 | Mill InstaFlash2, Dovetail T-bolt | | |
| Attachment Type | Rafter & Deck Attach | | | | | |
| Roof Fasteners | 1/2" Socket Driven; PF-DRW85 (sold separately in boxes of 24) | | | | | |
| Roof Type | Sloped Roof: Composition Shingle, Rolled Asphalt Flat Roof: Modified Bitumen Roof, Built-Up Roof | | | | | |
| Flashing Type | Factory Installed Non-Drying, Non-Skinning Butyl Based Chemical Flashing | | | | | |
| Installation Temperature | 0° F to 170° F | | | | | |
| Cure Time | Instantly Waterproof; Non-Hardening | | | | | |
| Service Temperature | -40° F to 195° F | | | | | |
| Certifications | IBC, ASCE/SEI 7-16 & 7-22, UL2703 | | | | | |
| Install Application | Most Railed Systems | | | | | |
| Kit Quantity | 24 | | | | | |
| Boxes Per Pallet | 36 | | | | | |





SCAN FOR INSTALLATION VIDEO



SCAN FOR FREE TRIAL

 $See \ www.ps-ip.com\ for\ intellectual\ property\ details.\ All\ rights\ reserved.\ @2024\ Pegasus\ Solar\ Inc.$





UL50 Type 3R Enclosure • Stamped 18 gauge gal. steel • Powder coated finish • Weather tight

Enclosure Includes:

- Dual ground lug
- · Universal DIN rail
- 1/2". 3/4" & 1" knockouts
- · Wire strain relief clip
- Complete hardware package



INTRODUCED AT SOLAR POWER 2007





PV Roof-Mount Combiner/Enclosure

Benefits

- •The ability to prep the building is now possible
- Replaces several parts used today
- Provides professional looking install
- · Saves time on install
- Allows for easy access
- Guaranteed seal to roof
- Low profile design

For product information contact us at [866] 367-7782

www.commdeck.com



RSTC Enterprises, Inc 2219 Heimstead Road Eau Claire, WI 54703 1 (866) 367 - 7782





SolaDeck Part # 780

Specifications:

18 Gauge Steel Base (1) and Cover (2)
Pre Punched 7 holes in base (1) for roof deck
Pre Punched 4 holes in base (1) and cover (2) for match
Draw Process both parts
Powder Coated to withstand 1000 hours Salt Spray (Primer Gray)
High UV resistance
15" x 15" flashing dimension
Cavity dimension 8"W x 9" L x 2.5"D
Approx. 162 Cubic inch equipment cavity
Norloked steel base plate (3) to drawn base (2)
Three knockout locations .5", .75" and 1"
3" DIN rail installed
Grounding Lug- Installed (In Equipment Cavity)
Wire Strain Relief Clip –Installed (In Equipment Cavity)
Hardware pack withstands 500 hours Salt Spray

- 7 2" Trusshead Screws
- 4 .5" 8-32 thread cutting screws
- 4 #10 Bonded Seal washers
- 1 Foam closed Cell Seal

ETL Listed UL50 Type 3R

Total Weight 6.9 pounds each

Packaging:

Individually bagged and boxed
Box dimension 15.5"w x 16" L x 3" D
White Carton labeled with Cut out template
Print One Color - Black

Master Cartons of 6 Units each
Master Carton dimension 18.75"x16"x16.375"
Master Carton Weight – 42 pounds
18 Master Cartons per skid Approx 800 pounds with skid

Eaton DG222URB

Catalog Number: DG222URB

Eaton General duty non-fusible safety switch, single-throw, 60 A, NEMA 3R, Rainproof, Painted galvanized steel, Two-pole, Two-wire, 240 V $\,$

Photo is representative

General specifications

Catalog Number

Eaton general duty non-fusible safety

DG222URB

switch

Product Name

UPC

782113144238

Product Length/Depth Product Height

7.38 in 14.38 in

Product Width Product Weight

8.69 in 9 lb

Warranty Compliances

Eaton Selling Policy 25-000, one (1) year NEC 230.62 (C) Compliant Barrier

from the date of installation of the

Product or eighteen (18) months from the Certifications

date of shipment of the Product,

of Shipment of the Product,

whichever occurs first. Catalog Notes

WARNING! Switch is not approved for service entrance unless a neutral kit is

installed.

UL Listed



default Taxonomy Attribute Label

Type

Non-fusible, single-throw

Amperage Rating

60A

Number Of Poles

Two-pole

Product Category

General duty safety switch

Voltage rating

240V

Enclosure

NEMA 3R

Enclosure material

Painted galvanized steel

Fuse configuration

Non-fusible

Number of wires

2

Resources

Catalogs

Eaton's Volume 2—Commercial Distribution

Multimedia

Double Up on Safety

Switching Devices Flex Center

Specifications and datasheets

Eaton Specification Sheet - DG222URB

Warranty guides

Selling Policy 25-000 - Distribution and Control Products and Services



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