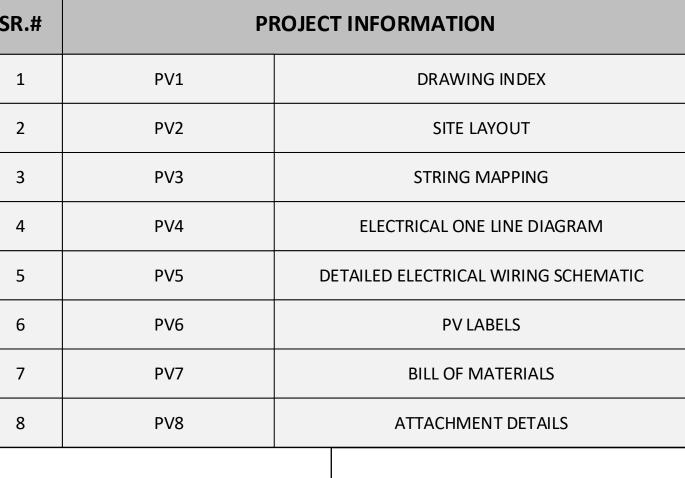
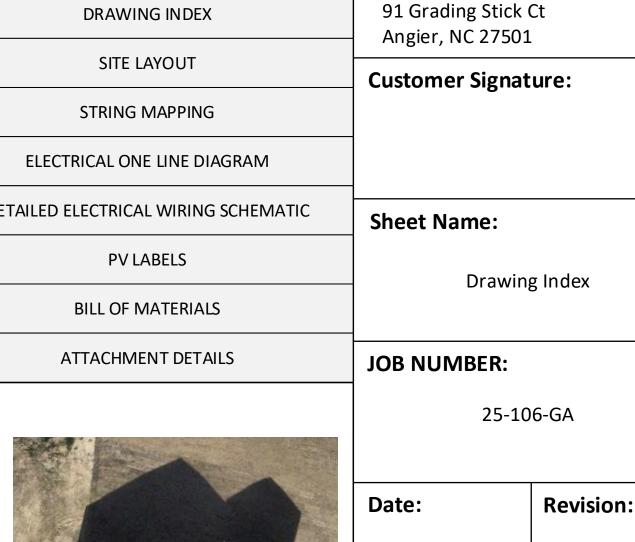
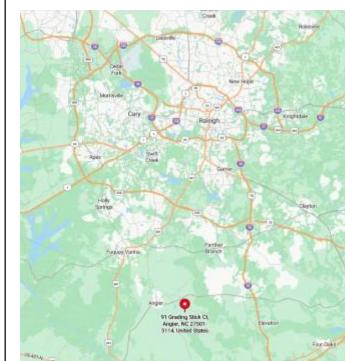
SR.# PHOTOVOLTAIC ROOF MOUNT SYSTEM **PROJECT INFORMATION** 1 **PV MODULES** 28 x AXITEC AC-440TGB/108BB+440W **CODE AND STANDARDS** 01 X POWERWALL3 2 **INVERTER + BATTERY** THE INSTALLATION OF SOLAR ARRAYS AND PHOTOVOLTAIC POWER SYSTEMS SHALL COMPLY 3 **ROOF TYPE ASPHALT SHINGLES** WITH THE FOLLOWING CODES: 2020 NATIONAL ELECTRICAL CODE 4 RACKING PSR-B84 RAILS (BLACK) 2018 NORTH CAROLINA RESIDENTIAL CODE 2018 NORTH CAROLINA BUILDING CODE COMP MOUNT FLASHING (BLACK) 5 **MOUNTING TYPE** ALL OTHER ORDINANCE ADOPTED BY THE LOCAL GOVERNING AGENCIES DC SIZE 12.32 KW 6 **SITE NOTES / OSHA REGULATION AC SIZE** 11.5 KVA 7 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 THE BONDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR, THE PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT GROUNDED CONDUCTORS. PV5 5 LIVE PARTS OF PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS OVER 150V TO GROUND









	03/26/2025	Α
	Sheet Size:	Sheet Number:
	ANSI C 17" X 22"	PV1
	NABCEP CERTIFIED PV Installation Professional Ali Buttar	
i	PVIP #031310-32	

8MSOLAR

5112 Departure Drive,

E: info@8msolar.com

Customer Information:

Raleigh NC 27616

O: 919.948.6474

Gary Neff

SOLAR CONTRACTOR

PHYSICAL DAMAGE.

- MODULE CERTIFICATIONS INCLUDE UL1703, IEC61646, IEC61370.
- IF APPLICABLE, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE MARKED GROUNDING LUG HOLES PER THE MANUFACTURERS INSTALLATION REQUIREMENTS.

SHALL NOT BE ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS WHILE ENERGIZED.

ALL PV MODULES AND ASSOCIATED EQUIPMENT AND WIRING SHALL BE PROTECTED FROM

- AS INDICATED BY DESIGN, OTHER NRTL LISTED MODULE GROUNDING DEVICES MAY BE USED IN PLACE OF STANDARD GROUNDING LUGS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ.
- ALL MICROINVERTERS, PHOTOVOLTAIC MODULES, AC COMBINERS, DC-AC CONVERTERS AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER NEC690.4(B).
- ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING CODE.
- TERMINALS AND LUGS WILL BE TIGHTENED TO MANUFACTURER TORQUE SPECIFICATIONS (WHEN PROVIDED) IN ACCORDANCE WITH NEC CODE 110.14(D) ON ALL ELECTRICAL CONNECTIONS.
- 7. MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC UNLESS NOT AVAILABLE.

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

UTILITY COMPANY: DUKE ENERGY

PERMIT ISSUER (AHJ): HARNETT COUNTY

SCOPE OF WORK INSTALLATION OF UTILITY INTERACTIVE PHOTOVOLTAIC SOLAR SYSTEM.

VICINITY MAP

TOP VIEW OF THE BUILDING

	MODULE DIMENSION			
ROOF	PITCH	AZIMUTH	NO. OF MODULES	44.6 in.
А	34°	284°	21	-
B 40°		194° 07		67.8 in.
				9

Roof B have no vents

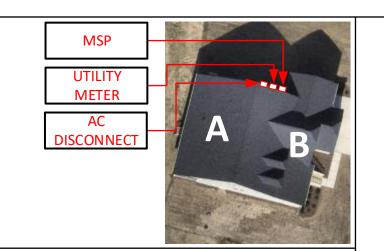
installation.

Vent

No vent will be covered by
PV modules during the

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	2.77	2.77							

(PSF)





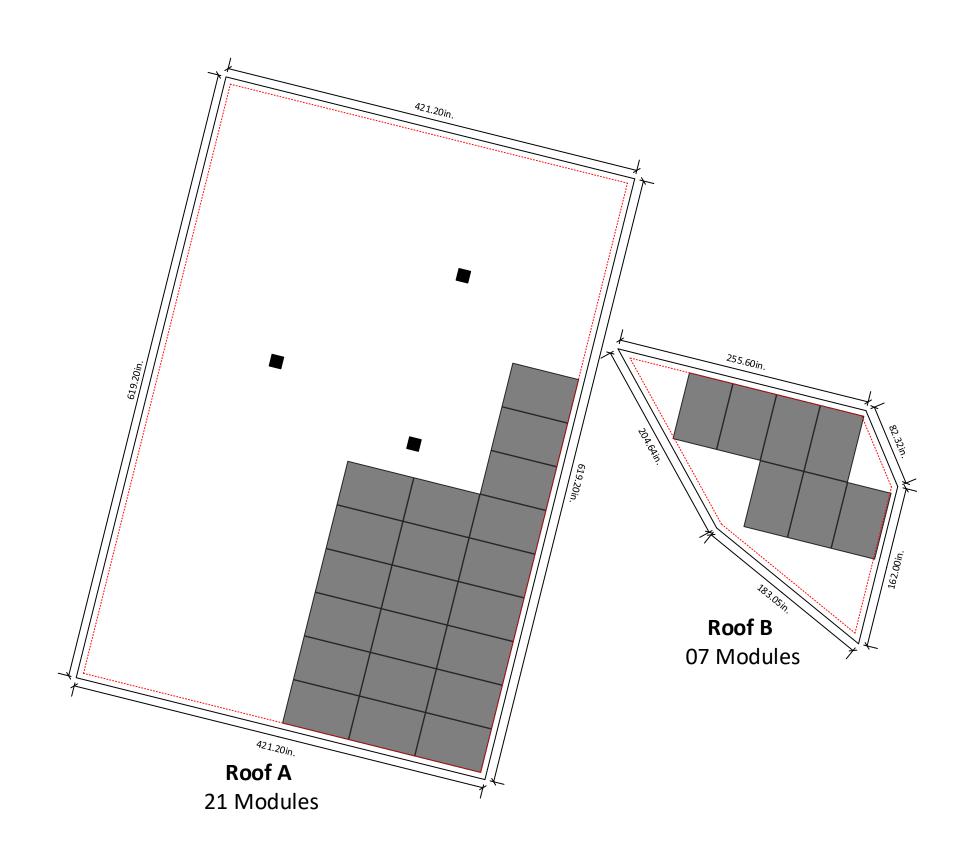
5112 Departure Drive, Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

SYSTEM DETAILS

NUMBER OF PANELS: 28

PANELS MODEL: AXITEC AC-440TGB/108BB+ 440W

DC SIZE : 12.32 KW AC SIZE : 11.5 KVA



Customer Information:

Gary Neff

91 Grading Stick Ct Angier, NC 27501

Customer Signature:

Sheet Name:

Site Layout

JOB NUMBER:

25-106-GA

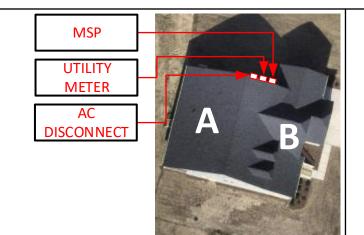
Date:	Revision:					
03/26/2025	A					
Sheet Size:	Sheet Number:					
ANSI C 17" X 22"	PV2					



6in setback from sides of the roof

SITE LAYOUT SCALE: 1/8" - 1'

	ROOF DES	CRIPTION		MODU	LE DIMENSIONS	STRING LAYOUT					
ROOF	PITCH	AZIMUTH	NO. OF MODULES		↓ 44.6 in.			TESLA POV	VERWALL3		
А	34°	284°	21			Strings #	No. of Modules	Color	Strings #	No. of Modules	Color
В	40°	194°	07	7.8 in		String 1	12				
				29		String 2	09				
						String 3	07				





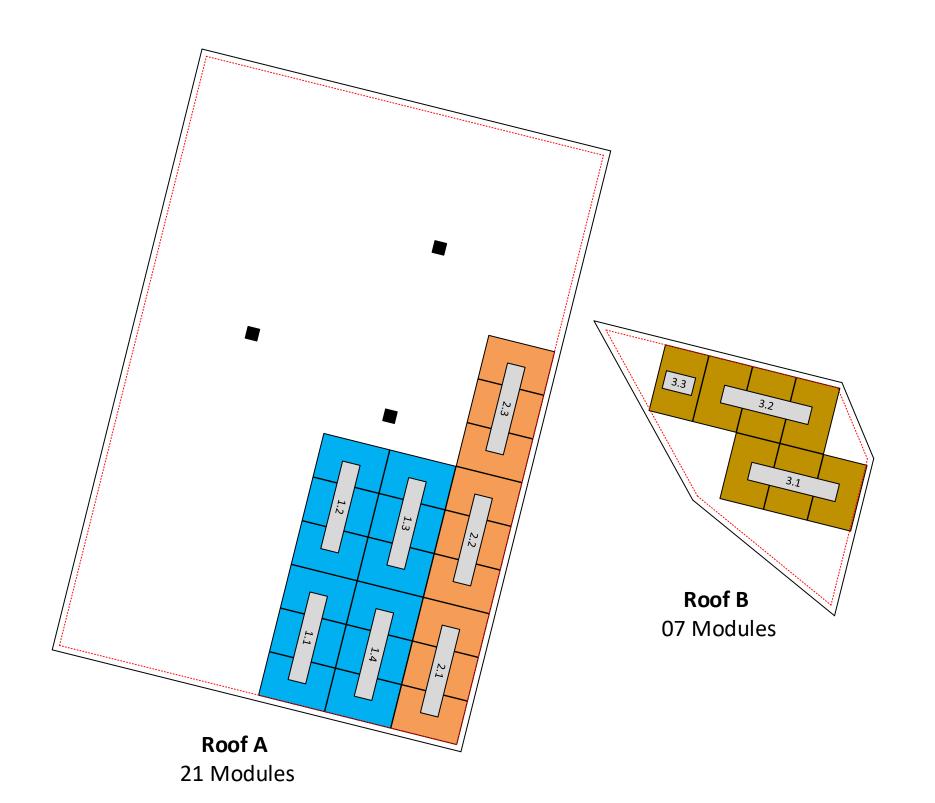
5112 Departure Drive, Raleigh NC 27616 O: 919.948.6474 E: info@8msolar.com

SYSTEM DETAILS

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DC SIZE : 12.32 KW AC SIZE : 11.5 KVA



Customer Information:

Gary Neff

91 Grading Stick Ct Angier, NC 27501

Customer Signature:

Sheet Name:

String Mapping

JOB NUMBER:

25-106-GA

Date:	Revision:					
03/26/2025	А					
Sheet Size:	Sheet Number:					
ANSI C 17" X 22"	PV3					

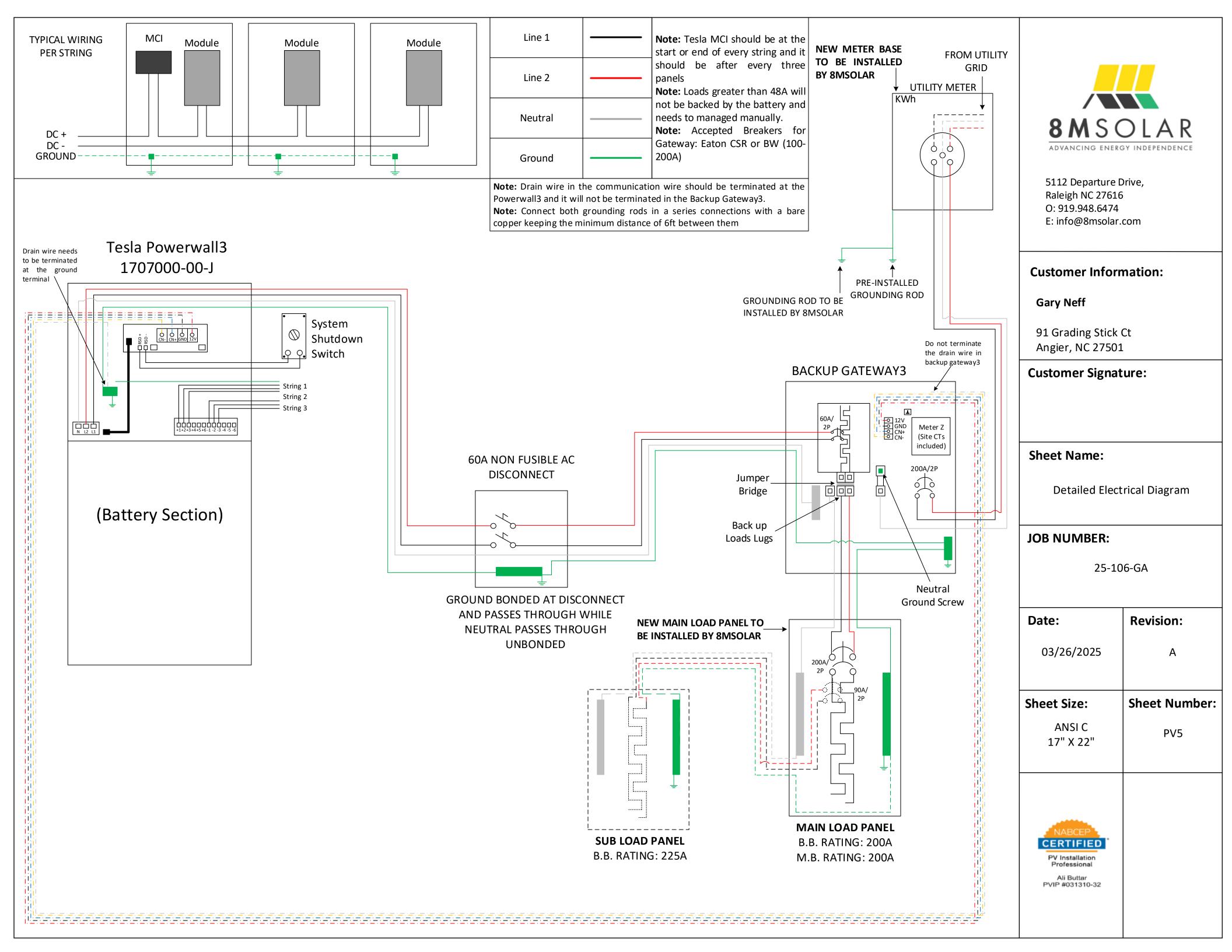


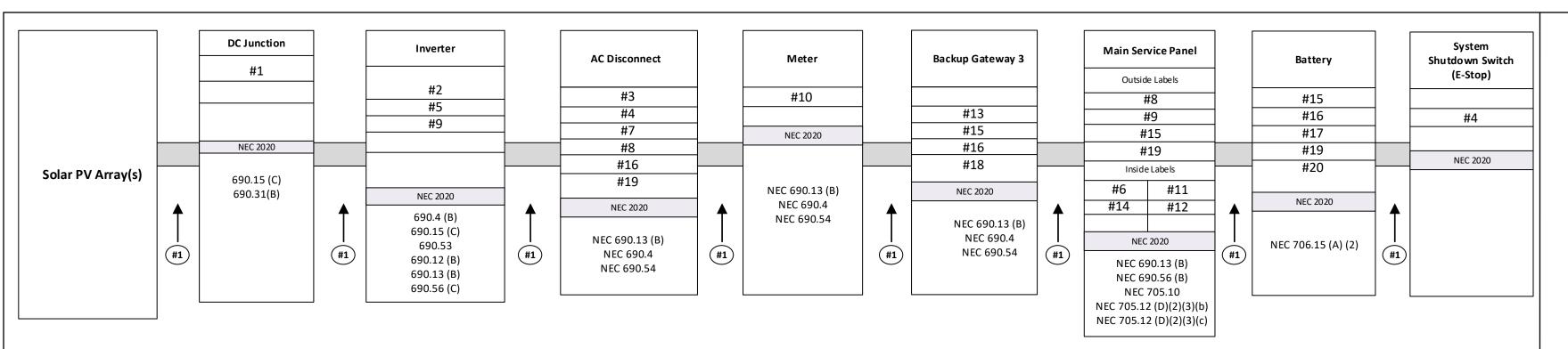
6in setback from sides of the roof

Tesla MCI (Mid Circuit Interrupter)

STRING MAPPING
SCALE: 1/8" - 1'

		STR	ING CALCUI	ATION					NEC Code	(2020) and II	L Standard Refr	ences		
String #	No of	Estimated	Imax	Impp	Voc	Vmpp				IEC 690.12 (A-D),			_	
1	Modules 12	Power 5,280 W	20.96 Adc	13.44 Adc	473.04 Vdc	550 Vdc		Rapid Shut D	own .	UL1741	Grounding	NEC Article 250.30(A)	_	
2	09	3,960 W	20.96 Adc	13.44 Adc	354.78 Vdc	550 Vdc		Disconnecting	Means	NEC 690.13	Conduit Fill	NEC Table C.9, 310.15(B)(3)(a)		
							_	Feeder Sizi	ing NEC	Table 310, 15(B)(16, 17)	Interconnection	NEC 705.12		
3	07	3,080 W	20.96 Adc	13.44 Adc	275.94 Vdc	550 Vdc		Over curre		NEC 690.9				OLAR
28 X AXITEC	AC-440TGB/1	 						Protectio		vice Side Work: Po	wer Drop Required		ADVANCING ENE	RGY INDEPENDENCE
440W TESLA MCI-2		Γ (Mid Circuit In	terrupter)								FROM UTILITY	Utility	5112 Departure Raleigh NC 276 O: 919.948.647 E: info@8msola	16 4
										INSTALLED BY 8	ASE TO BE MSOLAR	Meter	Customer Info	rmation:
					Sh	System outdown Switch	Taala Dawamualla					5	Gary Neff	
						(E-Stop)	Tesla Powerwall3 1707000-00-J			BREAKER CONNEC BACKUP GATEWAY	3	Backup Gateway 3	91 Grading Stic Angier, NC 275	
=	-=	-=	- =		_1	8					·-·		Customer Sign	ature:
String 1						ļ 1	AC					60A/2P 6 6 0 200A/2P		
<u>=</u>	-=	-6-			Sola Deck	$ \qquad \boxed{ J.Box } \boxed{ \boxed{3} $)	4			4			
String 2						Attic		60	0a non-fus Disconn		L		Sheet Name:	
	- =	-=-			_(1)-		(Battery Section)					6	Electrical Or	ne Line Diagram
String 3										NEW MAIN LOA BE INSTALLED E	>	200A/2P	JOB NUMBER:	
												90A/2P	25-2	106-GA
													Date:	Revision:
														Revision.
Note: Followin	g existing breal	kers will be insta	alled in the new	main									03/26/2025	A
Sr.No	lo	ad panel. er Amperage	Quantities									MAIN LOAD PANEL		
1 2		90/2P 60/2P	1 1							SUPLOAD BANEL		B.B RATING: 200A M.B RATING: 200A	Sheet Size:	Sheet Number:
3		50/2P 35/2P	1 3							SUB LOAD PANEL B.B. RATING: 225 <i>A</i>			ANSI C	PV4
7	I		<u> </u>		Grounding will be d		ounding lugs and mid- re continuously	Sr.No	#Wire	Conduit Si	ze Ground Wire	e Amperage	17" X 22"	
				g	grounded.		Circuit Interrupter ,	1	2 x #10 PV	,	#10 Bare Cu	20.35		
I -	m Size: 12,320\			r	refer to Mid Circuit			2 3	3 x #10 MC Ca	ible		20.35		
 Battery Total Energy: 13.5 KWh (28) Axitec AC-440TGB/108BB 440W datasheets. The load center/disconnect will be visible, lockable, 							3 6	6 x #10 THHN	Cu 3/4" EM1	#10 Green Cu	u 20.35	_00000000		
• (10) 1	.879359-15-B: T	Tesla MCI-2 Higl	n Current				perly labeled per NEC exterior wall next to	4	3 x #6 THHN	Cu 3/4" EM1	#6 Green Cu	ı 60	CERTIFIED	
1 ' '		I3 (1707000-00- A max @ 240 V <i>I</i>	•	t	the utility meter. Prepare cable in us			5 3	3 x #3/0 THHN	I Cu 2" PVC		200	PV Installation Professional	
	«VA AC output		. ,	• S	Stretch tape and ap	ply half-lapped to f	form void-free joint.	6 3	3 x #3/0 THHN	l Cu 2" PVC	#6 Green Cu	200	Ali Buttar PVIP #031310-32	
					Degree of stretch is sections of joint to			7	l-conductor shie twisted pair) 16					
				• F		th two half-lapped	layers of any scotch	g 2	ensted pair) 16 e-conductor shie twisted pair) 18	lded 1/2" LENG			1	





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:PHOTOVOLATIC POWER SOURCE

#2 PHOTOVOLTAIC

DC DISCONNECT

#3 PHOTOVOLTAIC

AC DISCONNECT

#4 RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM

#5 MAXIMUM VOLTAGE 550Vdc
MAX. RATED CIRCUIT CURRENT 13.44Adc
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

#7

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

#9

! WARNING

THREE POWER SOURCES

SOURCES: UTILITY GRID, BATTERY AND
PV SOLAR ELECTRIC SYSTEM

#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

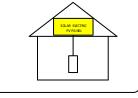
POWER SOURCE
OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

#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 SIDE WALL
OF THE HOUSE BESIDE THE

UTILITY METER

#16
SERIVCE DISCONNECT LOCATED
IN THE BACKUP GATEWAY3
PANEL

#17 BATTERY

#18

MAIN BATTERY
SYSTEM DISCONNECT

#19
BATTERY DISCONNECT LOCATED
IN THE BACKUP GATEWAY3
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 03/26/2025

Customer Information:

Gary Neff

91 Grading Stick Ct Angier, NC 27501

Customer Signature:

Sheet Name:

PV Labels

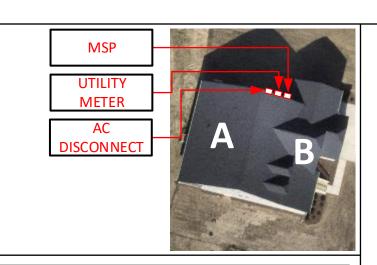
JOB NUMBER:

25-106-GA

Date:	Revision:				
03/26/2025	А				
Sheet Size:	Sheet Number:				
ANSI C 17" X 22"	PV6				



	ROOF DES	CRIPTION		MODULE DIMENSIONS	Daile and Calinea - DCD DO4 (DLACK)		
ROOF	PITCH	AZIMUTH	NO. OF MODULES	→ 44.6 in. ←	Rails and Splices : PSR-B84 (BLACK)	Roof Attachment : Pegasus Comp Mount	
А	34°	284°	21	-	Rafter Spacing: 24 in	There is one layer of shingles	
В	40°	194°	07	67.8 in	narter spasing (2 min	Roofing material is asphalt shingles	
				9	Attachment Span: 4ft	The roof is located in 120mph wind zone	
					Attaciment Span. 41t	The root is located in 120mph wind 20he	





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Customer Information:

Gary Neff

91 Grading Stick Ct Angier, NC 27501

Customer Signature:

Sheet Name:

Bill of Material

JOB NUMBER:

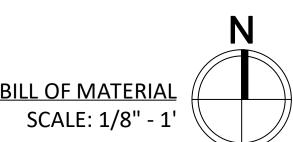
CERTIFIED

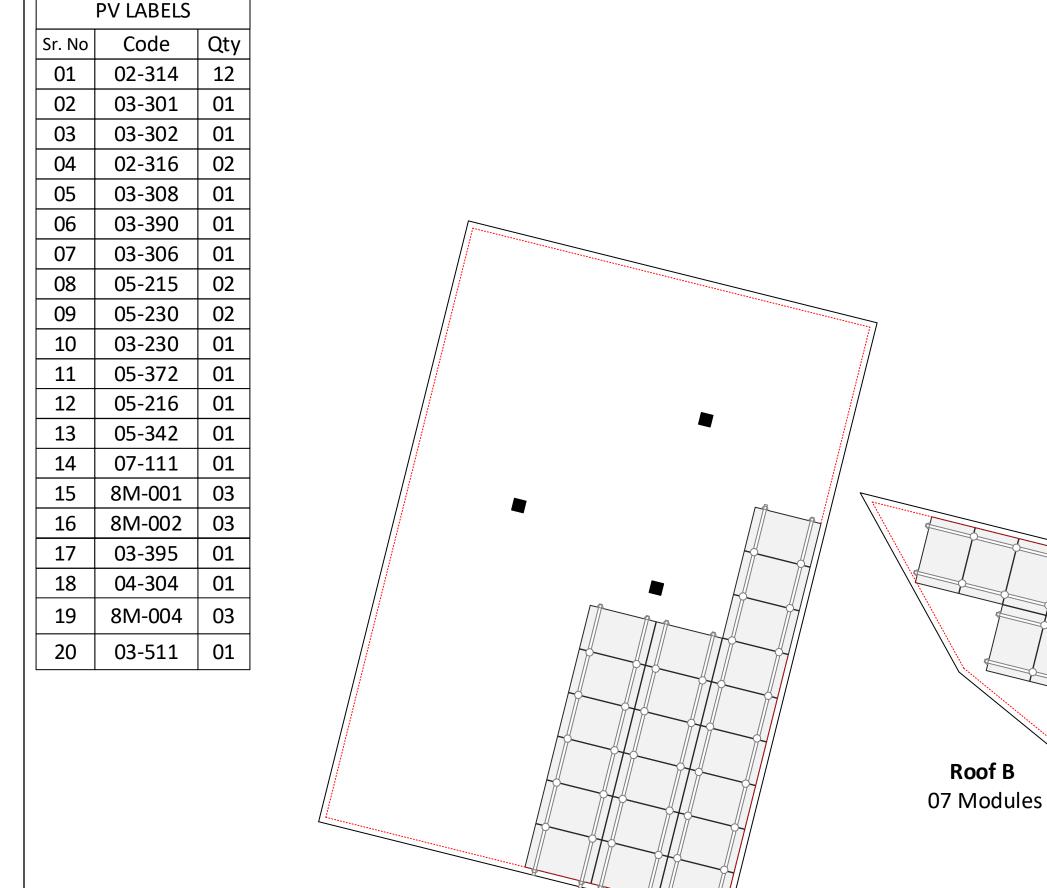
PV Installation Professional

Ali Buttar

25-106-GA

Date:	Revision:				
03/26/2025	А				
Sheet Size:	Sheet Number:				
ANSI C 17" X 22"	PV7				





21 Modules

RAILS AND MOUNTING SYSTEM

- 36 x PSR-B84: Pegasus Rail, Black, 84" (7 Feet)
- 26 x PSR-SPLS: Pegasus Bonded, Structural Splice
- 46 x PSR-MCB: Pegasus Multiclamp, Mid/End, 30 to 40 mm, Black
- 20 x PSR-HEC: Pegasus Hidden End Clamp
- 09 x PSR-LUG: Pegasus Grounding Lug
- 43 x PSR-WMC: Pegasus Wire Management Clip
- 06 x PSR-CBG: Pegasus Cable Grip
- 20 x PSR-CAP: Pegasus End Cap
- 64 x PSCR-UBBDT: Pegasus Comp Mount Open Slot, Black L Foot, Black Flashing, Dovetail 3/8" T-Bolt
- 56 x Heyco Wire Clips
- 05 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

• 28 x Axitec AC-440TGB/108BB+ 440W

INVERTER & SUPPORTING ITEMS

- 01 x 1707000-00-J :Tesla Powerwall3
- 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

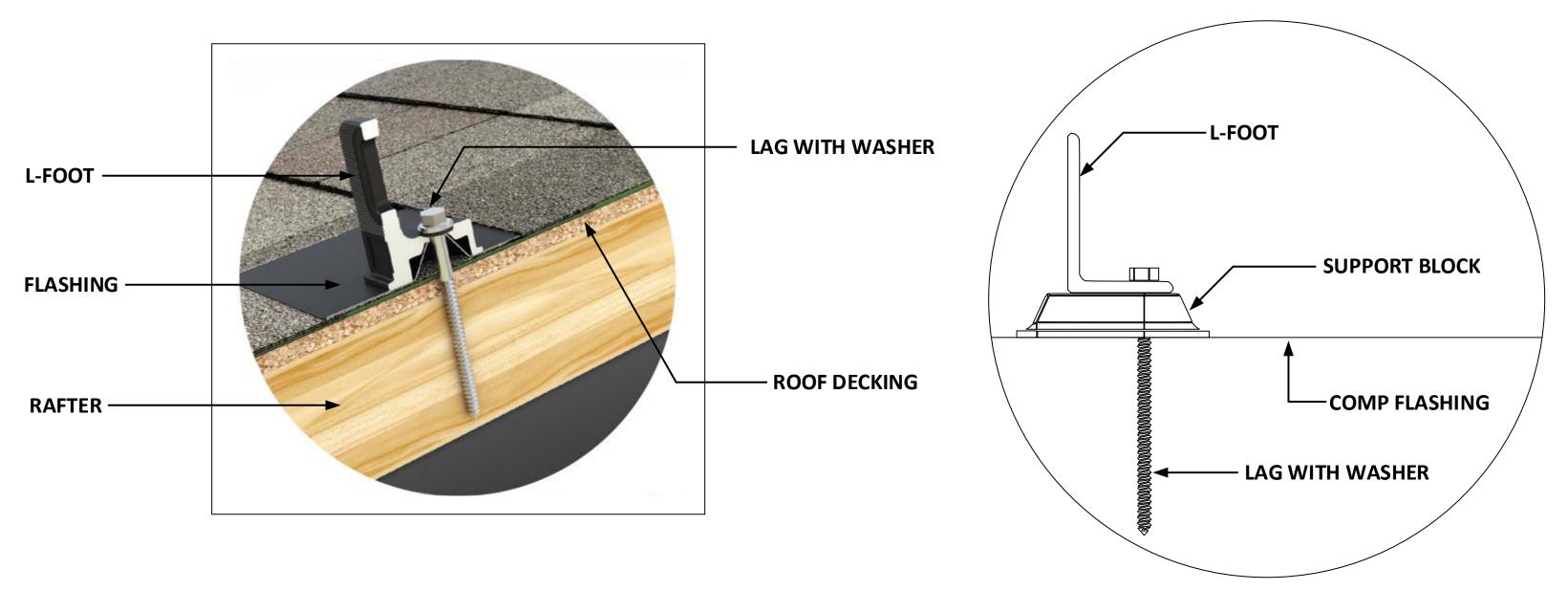
ELECTRICAL ITEMS

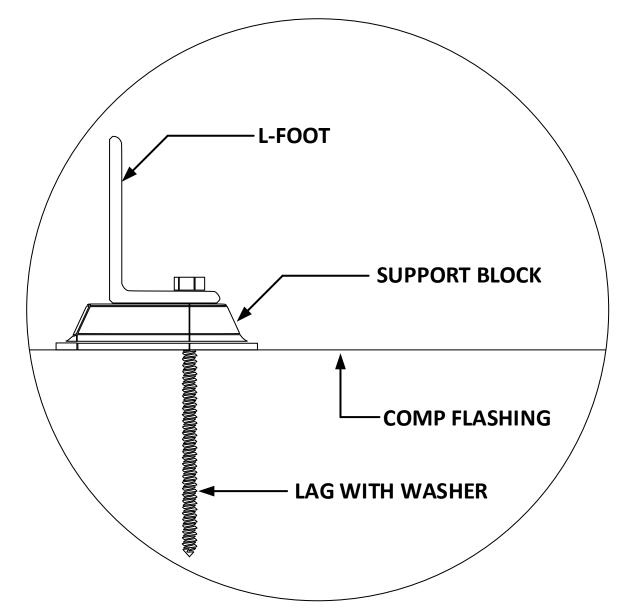
- 01 x BW2200: Gateway Main Breaker-Eaton BW2200
- 01 x BR260: Eaton BR 60/2
- 01 x DG222URB: 250volt/60amp/2pole non fusible disconnect (NEMA 3R)
- 01 x EATON UTRS213BE: Eaton 200A Meter Base
- 01 x CHP24B200R: Eaton CH main breaker 200A Load Center
- 01 x EATON M22PVK01: 22.5MM PB EMG STOP W/ CONTACTOR
- 01 x Eaton M22I1PG: SFC MTG ENC Emergency Stop Enclosure
- 01 x EZSLR JB-1.2: SolaDeck

ROOF FLASHINGS

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

6in setback from sides of the roof **BILL OF MATERIAL**







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Customer Information:

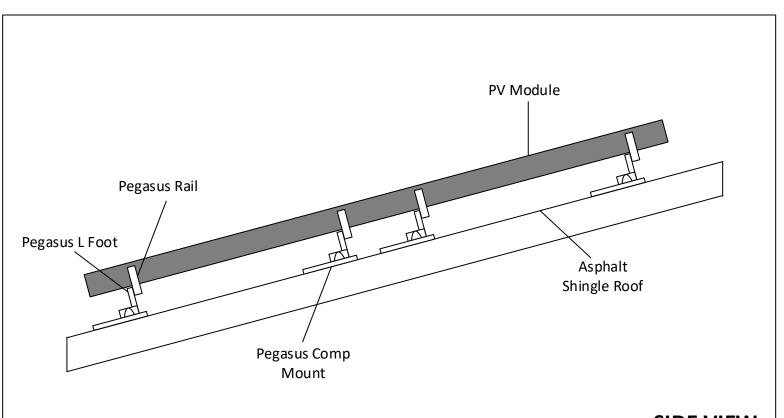
Gary Neff

91 Grading Stick Ct Angier, NC 27501

Customer Signature:



(07 panels x 47.2 lbs./panel + 15 ft. of racking x 1.17 lb.ft) / (07 panels x 5.65' x 3.71') = 2.77 psf



· '	Torque Value	· •	<u> </u>	<u>-</u>	Torque Value	Pegasus Comp Mount		Date.
100 in-lbs.	135 in-lbs.	135 in-lbs.	300 in-lbs.	135 in-lbs.	135 in-lbs.		SIDE VIEW	03/26/2025
							SIDE VIEW	
								Sheet Size:
		PV Dead Load						ANSI C
								17" X 22"
Roof A	(21 panels x 4		ht) / PV System Are ft. of racking x 1.17					NABCEP
Roof B			ad Load ht) / PV System Are ft. of racking x 1.17					PV Installation Professional Ali Buttar PVIP #031310-32

Sheet Name:

Attachment Details

JOB NUMBER:

25-106-GA

Date:	Revision:				
03/26/2025	А				
Sheet Size:	Sheet Number:				
ANSI C 17" X 22"	PV8				
17 / 22					
NABCEP					



AXIblackbiperfect 440 - 455 Wp

High performance bifacial solar module 108 halfcell, glass/glass, N-Type TOPCon

The advantages:



30 years Manufacturer's warranty and Performance guarantee



Up to 30 % more power output by Bifacial-Technology



More performance through innovative N-Type TOPCon-Technology



PID reduced through glass/glass-Technology



Increased safety through improved fire protection



Positive power sorting from 0-5 Wp

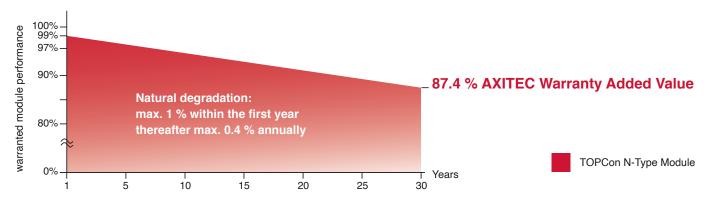






nilar 108TGBLEN241028A

Exclusive linear AXITEC high performance guarantee!





AXIblackbiperfect 440-455 Wp



Electrical data

at standard conditions (STC): irradiance 1000 W/m2, spectrum AM 1.5 at a cell temperature of 25°C

Туре	AC-440TGB/108BB	AC-445TGB/108BB	AC-450TGB/108BB	AC-455TGB/108BB
Nominal output	440 Wp	445 Wp	450 Wp	455 Wp
Nominal voltage Umpp	32.74 V	32.99 V	33.24 V	33.41 V
Nominal current Impp	13.44 A	13.49 A	13.54 A	13.62 A
Short circuit current Isc	14.13 A	14.19 A	14.25 A	14.31 A
Open circuit voltag Uoc	39.42 V	39.70 V	39.98 V	40.28 V
Module conversion efficiency	22.02 %	22.27 %	22.52 %	22.77 %

at BNPI test conditions: irradiance frontside 1000 W/m². backside 135 W/m². with spectrum AM 1.5 at a cell temperature of 25°C

Nominal output Pmpp	485 Wp	491 Wp	496 Wp	502 Wp	
Short circuit current Isc	15.58 A	15.64 A	15.71 A	15.77 A	
Open circuit voltag Uoc	39.42 V	39.70 V	39.98 V	40.28 V	

Bifacial coefficients: φUoc 0.98±5%; φIsc 0.80±10%; φPmpp 0.80±10%

Design

2.0 mm low-reflection white glass Frontside Backside 2.0 mm glass, cell spaces black

Cells 108 N-Type TOPCon bifacial high efficiency cells

Frame 30 mm black aluminium frame

Mechanical data

LxWxH 1722 x 1134 x 30 mm Weight 22,5 kg with frame



Mechanical load

Design load (pressure/suction) 3600 Pa / 1600 Pa * 5400 Pa / 2400 Pa * Test load (pressure/suction)

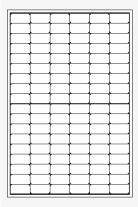
* depending on the type of installation according to the installation instructions

Power connection

Protection Class IP68, 3 bypass diodes Socket

Wire approx. 1.2 m, 4 mm²

IP68, MC4-EVO 2, MC4-EVO 2A, JM608 Plug-in system



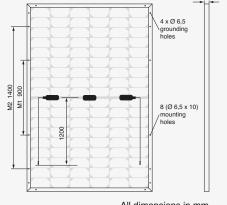


Fig. principle sketch

All dimensions in mm

Limit values

1500 VDC System voltage NOCT (nominal operating cell temperature)* 45°C +/-2K Reverse current feed IR 30.0 A

Permissible operating

-40°C to 85°C / -40F to 185F temperature Fire class / Protection class C (UL790) / II Hail resistance HW3 (Ø 30 mm, 23.6 m/s)

(No external voltages greater than Uoc may be applied to the module)

* NOCT, irradiance 800 W/m²; AM 1.5; wind speed 1 m/s; Temperature 20°C

Temperature coefficients

Voltage Uoc -0.26 %/K Current Isc 0.046 %/K Output Pmpp -0.31 %/K

Low-light performance without Bifacial-effect

(Example for 455TGBL/108BB)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m ²	2.78 A	32.15 V
400 W/m ²	5.62 A	32.52 V
600 W/m ²	8.39 A	32.78 V
800 W/m ²	11.09 A	33.06 V
1000 W/m ²	13.62 A	33.41 V

Packaging

Module pieces per pallet 36 Module pieces per HC-container 936







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

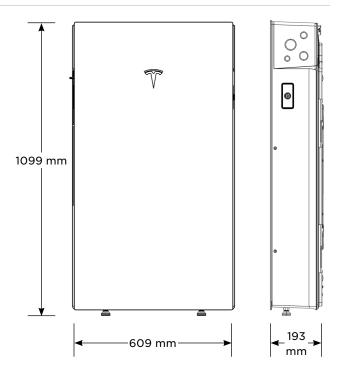
⁶ Performance may be de-rated at operating temperatures above 40°C (104°F).

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)
Specifications	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)
	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 Shutdown Switch or Powerwall 3 Enable Switch	

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

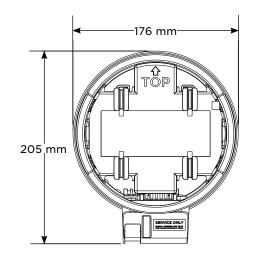
Compliance Information

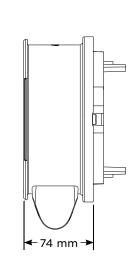
Safety Standards	USA: UL 414, UL 2735, UL 916, CA Prop 65
Emmissions	FCC, ICES

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.

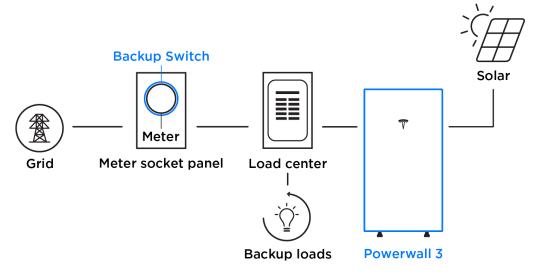




Powerwall 3 Example System Configurations

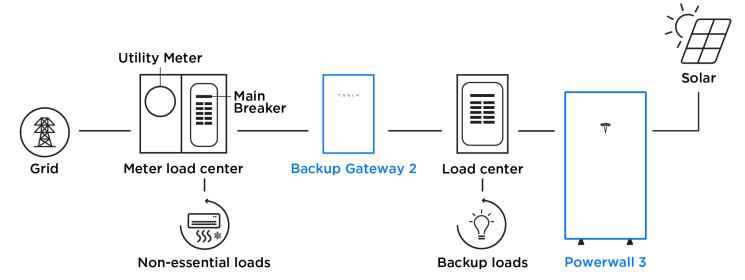
Powerwall 3 with Backup Switch

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

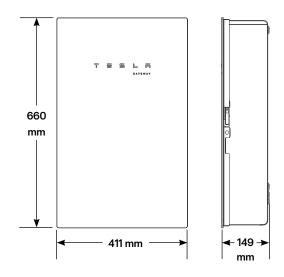
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Operating Humidity (RH)	Up to 100%, condensing
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R

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

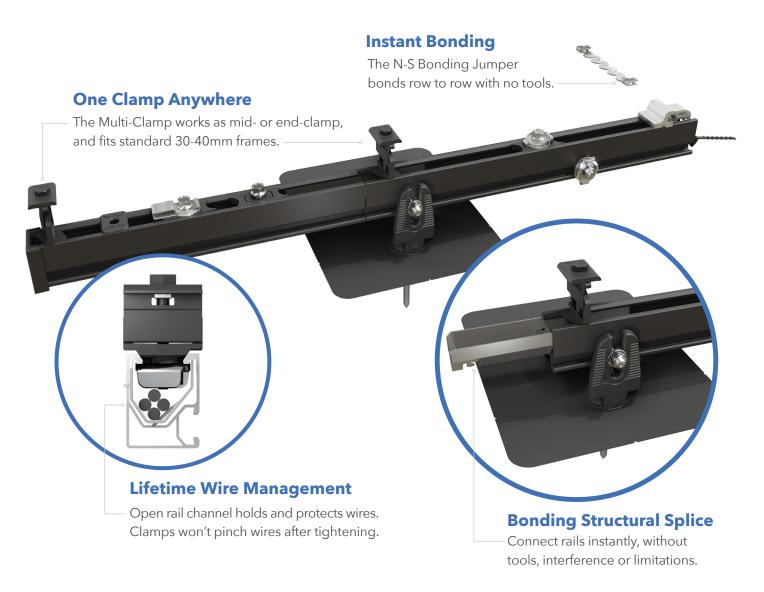
Dimensions	660 x 411 x 149 mm (26 x 16 x 6 in)
Weight	16.3 kg (36 lb)
Mounting options	Wall mount



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.



COMP MOUNT



Simple 3-Piece Design Watertight For Life



Pegasus solar's comp mounts are a cost effective, high-quality option for rail installations on composition shingle roofs. Designed to last decades, the one-piece flashing with elevated cone means there is simply nothing to fail.



25-Year Warranty

Manufactured with advanced materials and coatings to outlast the roof itself



Code Compliant

Fully IBC/CBC Code Compliant Exceeds ASCE 7-16 Standards



Superior Waterproofing

Tested to AC286 without sealant Water seal elevated 0.9" above



All-In-One Kit Packaging

Flashings, L-Feet and SS lags with bonded EPDM washers are included in each 24-pack



COMP MOUNT

1 Drill pilot hole in the center of the rafter.



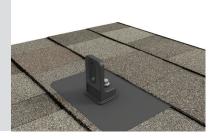
2Optional: Apply a
"u-shape" of sealant to
the underside of the
flashing and position
under 2nd shingle
course, cone over
pilot hole.



3Place L-Foot over cone and install lag with washer through L-Foot.

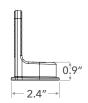


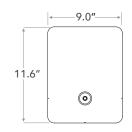
4Drive lag to required depth. Attach rail per rail manufacturer's instructions.



1.5" 3.5"









SPECIFICATIONS	COMP MOUNT INSTALL KITS					
SKU	PSCR-CBB0	PSCR-UBB0	SPCR-CBBH	PSCR-CMM0	PSCR-UMM0	
Finish	Blac	k L-Foot And Black Flash	ing	Mill		
L-Foot Type	Closed Slot	Open Slot	Closed Slot	Closed Slot	Open Slot	
Kit Contents	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer and M10 Hex Bolt	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer	
Roof Type			Composition Shingle			
Certifications		I	BC, ASCE/SEI 7-16, AC28	36		
Install Application	Railed Systems					
Compatible Rail	Most					
Kit Quantity	24					
Boxes per Pallet	72					

Protected under US Patent: 10,998,847. Additional patents pending. All rights reserved. ©2021 Pegasus





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





THE ULTIMATE ROOFTOP JUNCTION BOX

EZ Solar believes innovation is key to making Solar Simple! The most revolutionary junction box on the market just got better! Designed with the installer in mind, the JB-1.2 makes installation fast and easy!



SIMPLE TO INSTALL

- Minimal Shingle Cutting
- Enter Through 3 Sidewalls
- Wider and Taller Sidewalls



HIGH QUALITY

- Made from advanced durable polycarbonate + superior components, UL1741, Type 3R
 - 3 patented layers of water protection
 - 2 Weep Holes for breathability



LOWER PRICE

- We believe that EVERYONE should have access to affordable renewable energy
- With the same great features as the JB-1, the JB-1.2 is now available with updates to make installation even easier.









A. System Specifications and Ratings

Maximum Voltage: 1,000 VoltsMaximum Current: 80 Amps

Allowable Wire: 14 AWG – 6 AWG

- Spacing: Please maintain a spacing of at least ½" between uninsulated live parts and fittings for conduit, armored cable, and uninsulated live parts of opposite polarity.
- Enclosure Rating: Type 3R
 Roof Slope Range: 2.5 12:12
 Max Side Wall Fitting Size: 1"
- Max Floor Pass-Through Fitting Size: 1"
- Ambient Operating Conditions: (-35°C) (+75°C)
- Compliance:
 - JB-1.2: UL1741

Brumall 4-5,3

Blackburn LL414

- Approved wire connectors: must conform to UL1741

4-6 awg

10-14 awg

4-14 awg

- System Marking: Interek Symbol and File #5019942
- Periodic Re-inspections: If re-inspections yield loose components, loose fasteners, or any corrosion between components, components that are found to be affected are to be replaced immediately.

Torque 1 Conductor 2 Conductor Type NM Inch Lbs Voltage Current 16-24 awg Sol/Str 0.5-0.7 6.2-8.85 600V 30 amp ABB ZS6 terminal block 10-24 awg 12-20 awg Sol/Str 1.0-1.6 8.85-14.16 600V ABB ZS10 terminal block 6-24 awg 40 amp ABB ZS16 terminal bock Sol/Str 4-24 awg 10-20 awg 1.6-2.4 14.6-21.24 600V 60 amp ABB M6/8 terminal block Sol/Str 8.85 600V 8-22 awg .08-1 50 amp Ideal 452 Red WING-NUT Wire 8-18 awg Sol/Str 600V Connector Ideal 451 Yellow WING-NUT 10-18 awg Sol/Str 600V Wire Connector Ideal, In-Sure Push-In 10-14 awg Sol/Str 600V Connector Part #39 WAGO, 221-612 10-14 awg Sol/Str 600V 10-14 awg Sol/Str 35 International Hydraulics 2S2/0 4.5 8 awg Sol/Str 40

Table 1: Typical Wire Size, Torque Loads and Ratings

Table 2: Minimum wire-bending space for conductors through a wall opposite terminals in mm (inches)

Sol/Str

Sol/Str

Sol/Str

45

35

Wire size	e, AWG or	Wires per terminal (pole)							
			1 2				3	4 or More	
kcmil	(mm2)	mm	(inch)	mm	(inch)	mm	(inch)	mm	(inch)
14-10	(2.1-5.3)	Not specified			-		-		
8	(8.4)	38.1	(1-1/2)		-		-		-
6	(13.3)	50.8	(2)		-		-		-

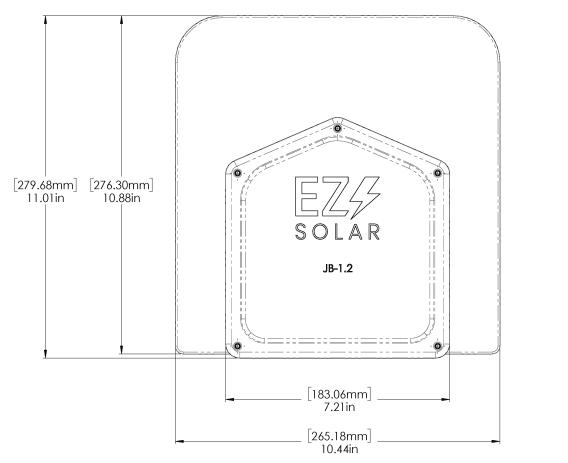
2000V

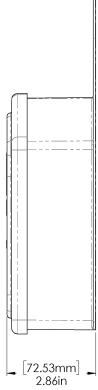


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	JB-1.2 BODY	POLYCARBONATE WITH UV INHIBITORS	1
2	JB-1.2 LID	POLYCARBONATE WITH UV INHIBITORS	1
3	#10 X 1-1/4" PHILLIPS PAN HEAD SCREW		6
4	#8 X 3/4" PHILLIPS PAN HEAD SCREW		6

SIZE	DWG. NO.		REV
В	JB-1.2		
SCALE: 1:2	WEIGHT: 1.45 LBS	SHEE	T 1 0F 3

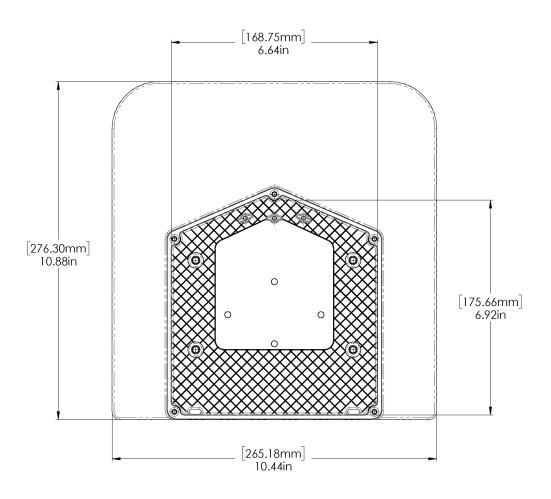
TORQUE SPECIFICATION:	15-20 LBS
CERTIFICATION:	UL STANDARD 1741, NEMA 3R
WEIGHT:	1.45 LBS



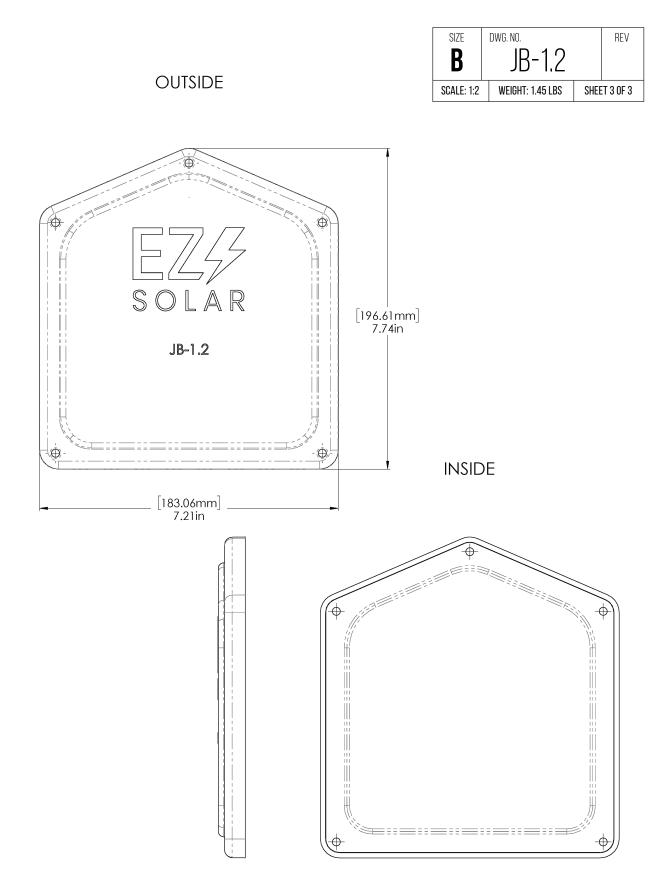




SIZE	DWG. NO.		REV
В	JB-1.2		
SCALE: 1:2	WEIGHT: 1.45 LBS	SHEE	T 2 0F 3







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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Eaton.com/socialmedia

Specifications

Photo is representative







Eaton CHP24B200R

Eaton CH main breaker loadcenters, Cover included, Main breaker, 200 A,X5,Copper,NEMA 3R, Metallic, CSR, 48, 24, Threewire, Singlephase, Overhead, 120/240 V

General specific	cations
PRODUCT NAME	Eaton CH main breaker loadcenter
CATALOG NUMBER	CHP24B200R
UPC	786689058609
PRODUCT LENGTH/DEPTH	29 in
PRODUCT HEIGHT	5.19 in
PRODUCT WIDTH	14.31 in
PRODUCT WEIGHT	26 lb
WARRANTY	Limited lifetime
CERTIFICATIONS	UL 67 UL 50
CATALOG NOTES	Suitable for use as service equipment when not more than six service disconnecting mains are provided or when not used as a lighting and appliance panelboard. Rainproof panels are furnished with hub closure plates. For rainproof hubs.

Product specifications		
SPECIAL FEATURES	Cover included	
ТҮРЕ	Main breaker	
AMPERAGE RATING	200 A	
BUS MATERIAL	Copper	
MAIN CIRCUIT BREAKER	CSR	
NUMBER OF CIRCUITS	48	
NUMBER OF SPACES	24	
PHASE	Single- phase	
FEED TYPE	Overhead	
VOLTAGE RATING	120/240 V	
BOX SIZE	X5	
ENCLOSURE	NEMA 3R	
ENCLOSURE MATERIAL	Metallic	
NUMBER OF WIRES	3	

WIRES