CODE AND STANDARDS

THE INSTALLATION OF SOLAR ARRAYS AND PHOTOVOLTAIC POWER SYSTEMS SHALL COMPLY WITH THE FOLLOWING CODES:

PHOTOVOLTAIC ROOF MOUNT SYSTEM

- 2020 NATIONAL ELECTRICAL CODE
- 2018 NORTH CAROLINA RESIDENTIAL CODE
- 2018 NORTH CAROLINA BUILDING CODE
- ALL OTHER ORDINANCE ADOPTED BY THE LOCAL GOVERNING AGENCIES

SITE NOTES / OSHA REGULATION

- 1. A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- 2. THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- 3. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED AND IDENTIFIED BY RECOGNIZED ELECTRICAL TESTING LABORATORY.
- 4. MODULES AND SUPPORT STRUCTURES SHALL BE GROUNDED
- 5. SOLAR INVERTER SHALL BE LISTED TO UL1741
- 6. ALL CONDUCTORS SHALL BE COPPER AND SHOULD BE 75 AND 90 DEG RATED
- 7. REMOVAL OF AN INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BONDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR, THE PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT GROUNDED CONDUCTORS.
- 8. 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.
- 9. ALL PV MODULES AND ASSOCIATED EQUIPMENT AND WIRING SHALL BE PROTECTED FROM PHYSICAL DAMAGE.

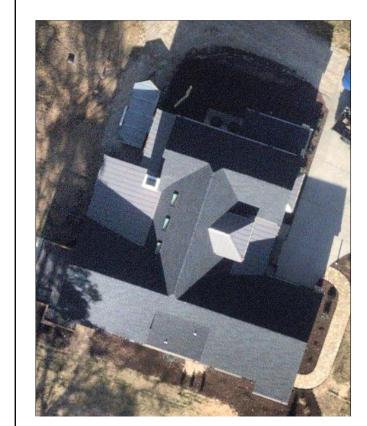
SOLAR CONTRACTOR

- 1. MODULE CERTIFICATIONS INCLUDE UL1703, IEC61646, IEC61370.
- 2. IF APPLICABLE, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE MARKED GROUNDING LUG HOLES PER THE MANUFACTURERS INSTALLATION REQUIREMENTS.
- 3. 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.
- 4. 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).
- 5. ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING CODE.
- 6. 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.

SR.#	PROJECT INFORMATION						
1	PV MODULES	36 x Q.TRON BLK M-G2+ 425W					
2	INVERTER + BATTERY	02 X POWERWALL3					
3	3 ROOF TYPE ASPHALT SHINGLES						
4	RACKING	RACKING PSR-B84 RAILS (BLACK)					
5	MOUNTING TYPE	COMP MOUNT FLASHING (BLACK)					
6	DC SIZE	15.3 KW					
7	AC SIZE	20.0 KVA	Cı				
SR.#	PROJECT INFORMATION						
1	PV1	DRAWING INDEX	10 Ar				
			<i>'</i> ''				

,	, (0 0.22	2010 1.07.1				
SR.#	Pi	PROJECT INFORMATION				
1	PV1	DRAWING INDEX				
2	PV2	SITE LAYOUT				
3	PV3	STRING MAPPING				
4	PV4	ELECTRICAL ONE LINE DIAGRAM				
5	PV5	DETAILED ELECTRICAL WIRING SCHEMATIC				
6	PV6	PV LABELS				
7	PV7	BILL OF MATERIALS				
8	PV8	ATTACHMENT DETAILS				





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ADVANCING E			_
5112 Denarti	Diina		

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

Customer Information:

George B Womble

109 Overlook Court Angier NC 27501

Customer Signature:

Sheet Name:

Drawing Index

JOB NUMBER:

24-336-GW

Date:	Revision:
07/02/2024	В
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV1

DESIGN CRITERIA
WIND SPEED: 115 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.

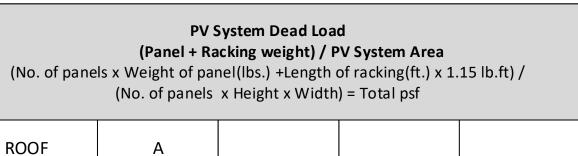


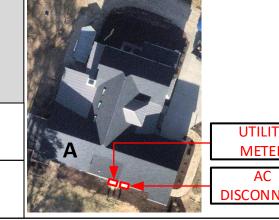
VICINITY MAP

TOP VIEW OF THE BUILDING



	ROOF DES	CRIPTION	MODULE DIMENSIONS	MODULE DIMENSION	>	
ROOF	PITCH	AZIMUTH	NO. OF MODULES	44.6 in.	44.6 in.	
А	52°	199°	36	خ ا	<i>-</i>	
				67.8 in.	57.8 in	
					9	
Vent		 Roof A has no No vents will PV modules installation. 	be covered by			





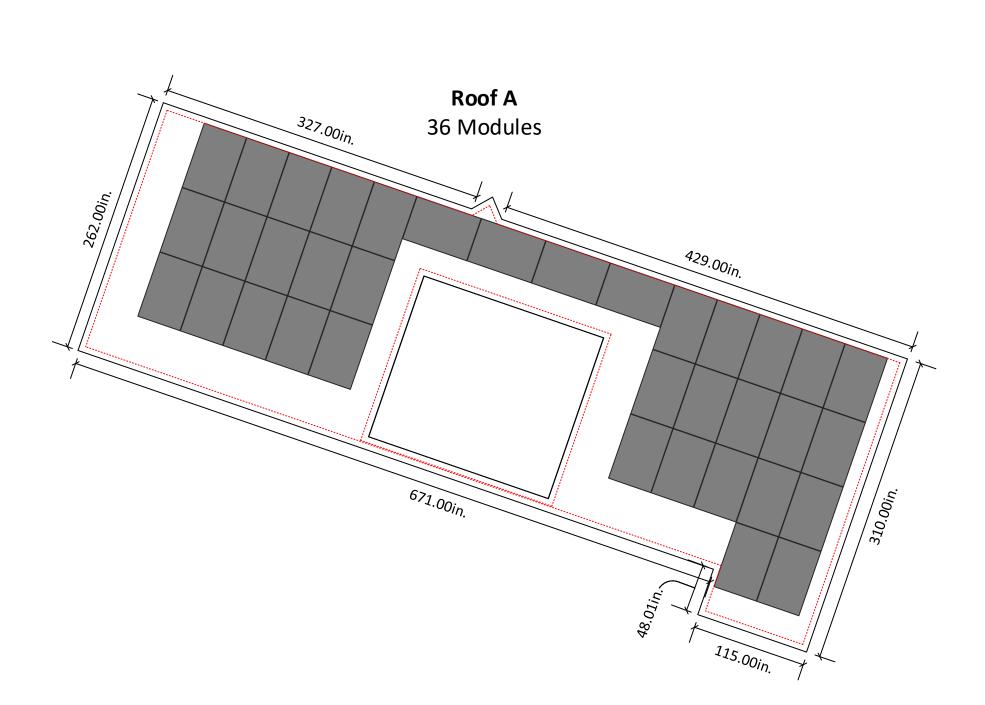


SYSTEM DETAILS

NUMBER OF PANELS: 36

PANELS MODEL : Q.TRON BLK M-G2+ 425W

DC SIZE: 15.3 KW AC SIZE: 20.0 KVA



DEAD LOAD

(PSF)

2.68



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Customer Information:

George B Womble

109 Overlook Court Angier NC 27501

Customer Signature:

Sheet Name:

Site Layout

JOB NUMBER:

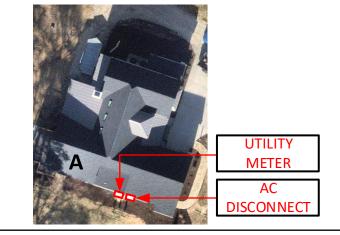
24-336-GW

Date:	Revision:					
07/02/2024	В					
Sheet Size:	Sheet Number:					
ANSI C 17" X 22"	PV2					



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

	ROOF DES	CRIPTION		MODULE DIMENSION	NS	STRING LAYOUT					
ROOF	PITCH	AZIMUTH	NO. OF MODULES	44.6 in. ↓		TESLA	POWERWAL	L3 (A)	TESLA	POWERWAL	.L3 (B)
A	52°	199°	36			Strings #	No. of Modules	Color	Strings #	No. of Modules	Color
				67.8 in		String 1	09		String 3	09	
				9		String 2	09		String 4	09	
•							•				



SYSTEM DETAILS

NUMBER OF PANELS: 36

PANELS MODEL : Q.TRON BLK M-G2+ 425W

DC SIZE : 15.3 KW AC SIZE : 20.0 KVA



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

Customer Information:

George B Womble

109 Overlook Court Angier NC 27501

Customer Signature:

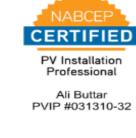
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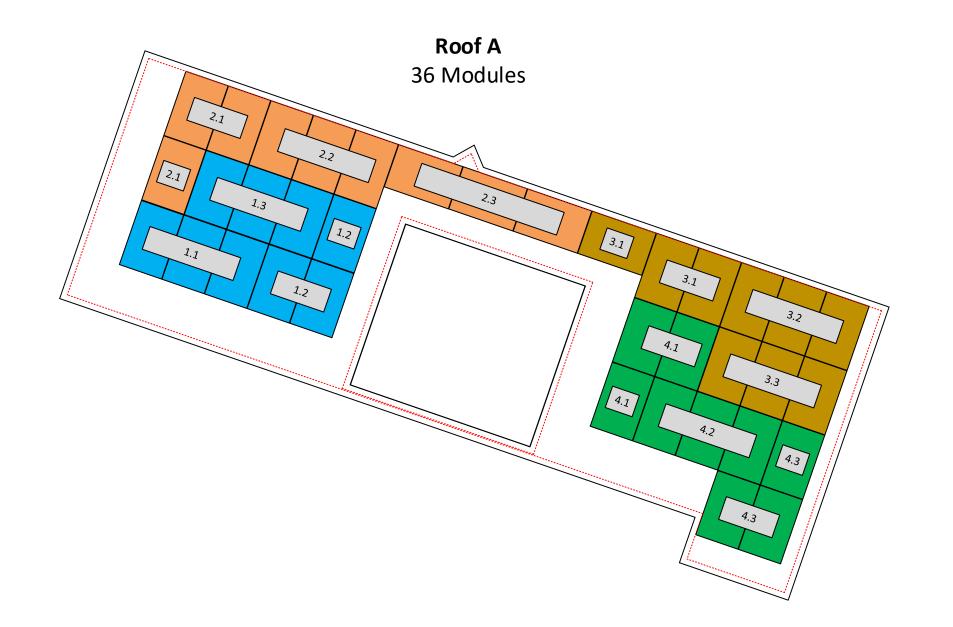
String Mapping

JOB NUMBER:

24-336-GW

Date:	Revision:
07/02/2024	В
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV3





6in setback from sides of the roof

Tesla MCI (Mid Circuit Interrupter)

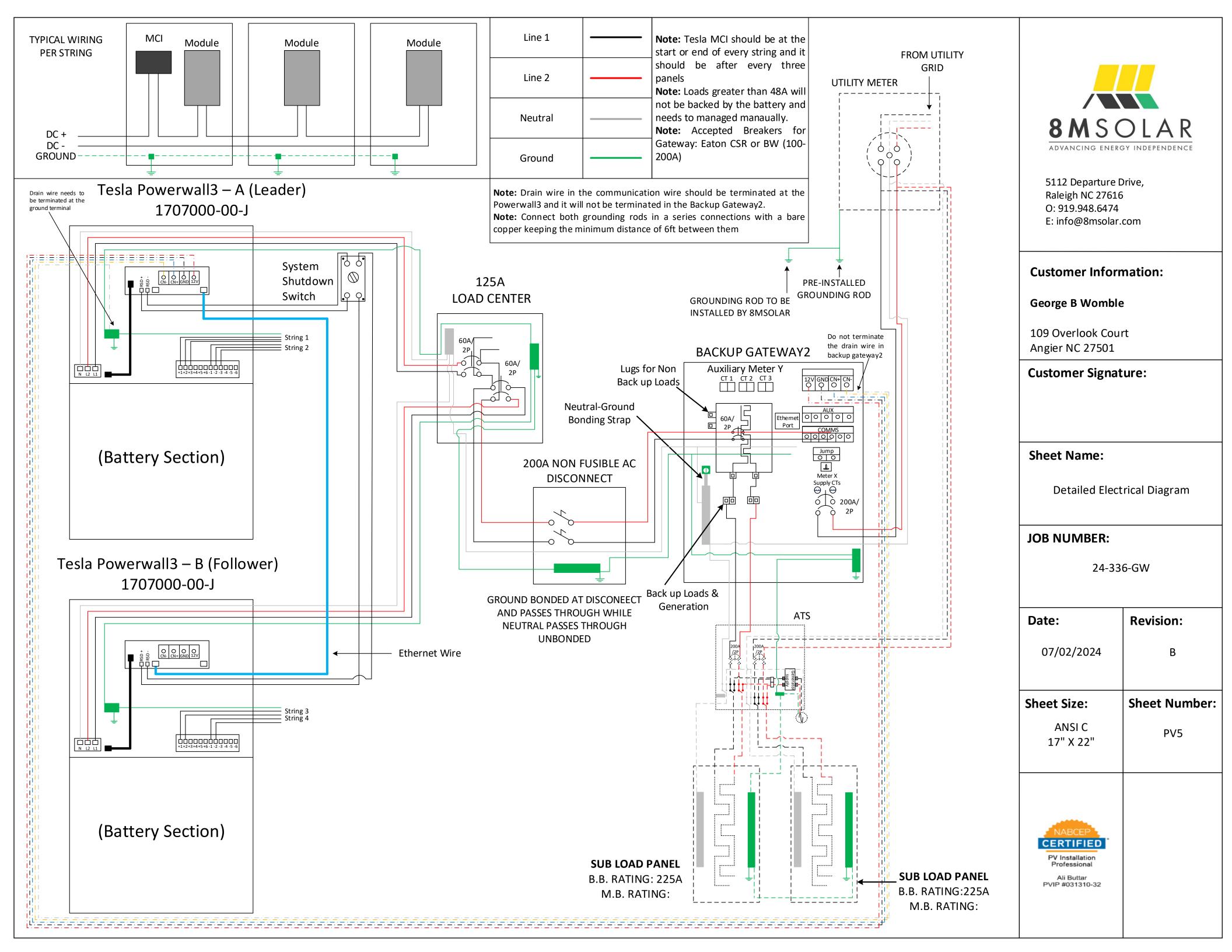
STRING MAPPING
SCALE: 1/8" - 1'

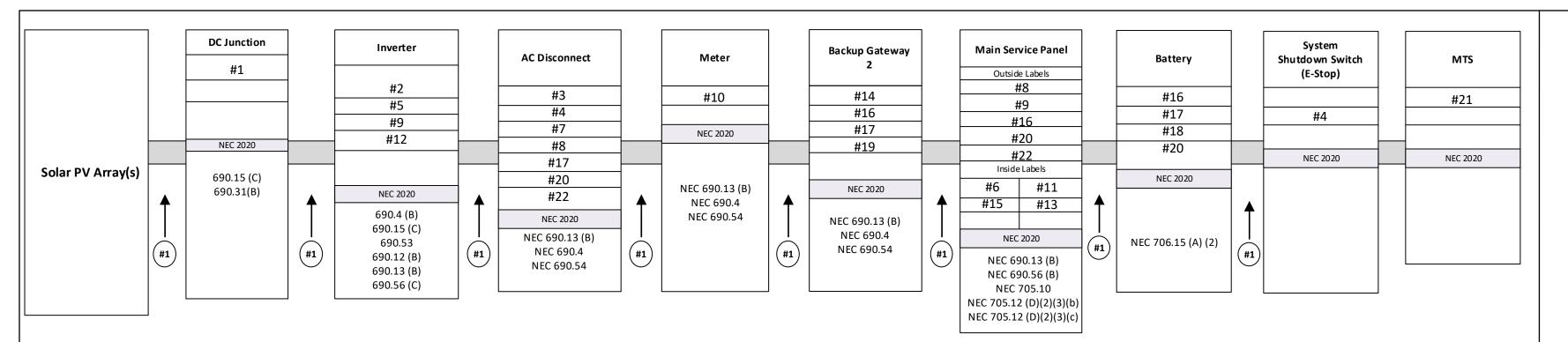
		STR	ING CALCU	LATION					NEC C	ode (202	20) and UL S	tandard Refre	nces		
String #	No of Modules	Estimated Power	Imax	Impp	Voc	Vmpp		Rapid Shu	ut Down		.12 (A-D),	Grounding	NEC Article 250.30(A)		
1,2,3,4	09	3,825 W	20.24 Adc	12.98 Adc	351.27Vdc	550 Vdc		Disconnecti	ing Means		590.13	Conduit Fill	NEC Table C.9,		
								Feeder	_		10, 15(B)(16,	Interconnection	310.15(B)(3)(a) NEC 705.12		
								Over cu	_		/)	meerconnection	1410 703.12	8M S(OLAR
								Prote			690.9	- Duna - Danwins d			GY INDEPENDENCE
36 X Q.TRON 425W	N BLK M-G2+ 4	125W			-	Tesla Powerwal	•			Service Sic	de Work: Power	Drop Required		5112 Departure I	Drive,
TESLA MCI-2	2 (Mid Circuit I					170700 —	U-UU-J							Raleigh NC 27616 O: 919.948.6474	6
RAPID SHUT	DOWN EQUIP	PED			-6-	81 4						FROM UTIL	ity	E: info@8msolar	
					System Shutdown S	witch / /							Utility		
					(E-Stop)							Meter	Customer Infor	mation:
=	-=	- =	1											George B Womble	e
String 1						(Batt	·	· = · = · = · = · = · = · = · = ·	_ · _ · _ · (9) ·		· - ·-·-		\neg \vdots	109 Overlook Cou	rt
		_=	1			Secti	on)					Backup Gateway	2	Angier NC 27501	
					Attic		─ ; (4) 	A/2P			1	125A/2P 200/ 2P	V	Customer Signat	ture:
String 2				Sola Deck	J.Box 3		10 0	A/2P 5		Ď	5	$ \bigcirc$ \bigcirc	0		
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String 3							125A LC	DAD CENTER	DISC	ONNECT		7	 	Sheet Name:	
											KER CONNECT BACKUP GATEW		ATS	Flootrical One	Lino Diagram
	- =	- =	1)—			A				ı—	7	Generator	200A/2P	Electrical Offe	e Line Diagram
String 4									[JOB NUMBER:	
						/Date			 						IC CIM
						(Batt Secti	-		i 1 1					24-33	66-GW
					Te	esla Powerwall	B – B (Follower)	SUB LOAD I B.B RATING:	i				<u> </u>	Date:	Revision:
						170700	0-00-J	M.B RATI	NG:	·				07/02/2024	В
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NOTE: Export L		•	d t								SUB LOAD F B.B RATING:	1 1		Sheet Size:	Sheet Number:
consumption n	•	nome backup and	u partiai								M.B RATI	NG:		ANSI C 17" X 22"	PV4
						done via Pegasus gro he rail and panels ard	unding lugs and mid- e continuously	Sr.No	#W		Conduit Size			17	
				"	rounded. apid Shutdown is	included in the Mid	Circuit Interrupter ,	2	2 x #1 4 x #10 N			#10 Bare Cu	20.24		
1	em Size: 15,300				efer to Mid Circui atasheets.	t Interrupter and Inv	erter attached	3	8 x #10 T		3/4" EMT	#10 Green Cu	+		
	ery Total Energy Q.TRON BLK M			• т	ne load center/di	sconnect will be visib		4	3 x #6 T	HHN Cu	3/4" EMT	#8 Green Cu	60	_000000a.	
• (12) 1	1879359-00-X:	Tesla MCI-2				y linesmen, and prop ill be located on the	•	5	3 x #1 T	HHN Cu	1.5" EMT	#6 Green Cu	125	CERTIFIED	
1 ' '		ll3 (1707000-00- A max @ 240 V	•	tl	ne utility meter.			6	3 x #3/0	ГННN Cu	2" PVC		200	PV Installation Professional	
	kVA AC output		.5 (5001)		repare cable in us cretch tape and a	sual manner. pply half-lapped to fo	orm void-free joint.	7	3 x #3/0	ΓΗΗΝ Cu	2" PVC	#6 Green Cu	200	Ali Buttar PVIP #031310-32	
				D	egree of stretch i	s not critical and may	vary in different	8	2 x #16 T		3/4" EMT			_	
				• P	rotect the joint w	accomplish void-frewith two half-lapped l		9	(1 twisted pa	air) 16 AWG	3/4" EMT			-	
1				l v	nyl plastic electri	ical tane		10	Ehterne	et Wire	3/4" EMT	1		I	1

Ehternet Wire

vinyl plastic electrical tape.

3/4" EMT







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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 PHOTOVOLATIC

DC DISCONNECT

#3 PHOTOVOLATIC

AC DISCONNECT

#4 RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM

#5 MAXIMUM VOLTAGE 550Vdc
MAX. RATED CIRCUIT CURRENT 12.98Adc
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

! WARNING

ELECTRIC SHOCK HAZARD

TERMINAL ON THE LINE AND LOAD
SIDES MAY BE ENERGIZED IN THE

OPEN POSITION

#9

! WARNING

DUAL POWER SUPPLY

SOURCES: UTILITY GRID 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

DISCONNECT OF NEUTRAL
GROUNDED CONDUCTORS MAY
RESULT IN OVERVOLTAGE ON
ARRAY OR INVERTER

#13 WARNING

POWER SOURCE
OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

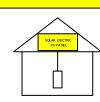
#14

! WARNING

SOLAR ELECTRIC
CIRCUIT BREAKER
IS BACKFEED

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



#16
SOLAR AC DISCONNECT
LOCATED AT SOUTH-WEST SIDE
WALL OF THE HOUSE BESIDE
THE UTILITY METER

#17
SERIVCE DISCONNECT LOCATED
IN THE BACKUP
GATEWAY23PANEL

#18 BATTERY

#19

MAIN BATTERY

SYSTEM DISCONNECT

#20
BATTERY DISCONNECT LOCATED
IN THE BACKUP GATEWAY 2
PANEL

#21

CAUTION

POWER TO THIS BUILDING IS SUPPLIED

FROM THE FOLLOWING SOURCES

UTILITY GRID

ELECTRICAL GENERATOR

PV SOLAR ELECTRICAL SYSTEM

#22
GENERATOR WILL BE MANAGED
BY THE MTS

Customer Information:

George B Womble

109 Overlook Court Angier NC 27501

Customer Signature:

Sheet Name:

PV Labels

JOB NUMBER:

24-336-GW

Date:

O7/02/2024

B

Sheet Size:

ANSI C
17" X 22"

PV6



	ROOF DESC	MODULE DIMENSIONS			
ROOF	PITCH	AZIMUTH	NO. OF MODULES	44.6 in.	
А	52°	199°	36		
				67.8 in.	

PV LABELS

Code

02-314

03-301

03-302

02-316

03-308

03-390

03-306

05-215

05-211

03-230

05-372

05-103

05-216

05-342

07-111

8M-001

8M-002

03-395

04-304

8M-004

8M-005

8M-003

Sr No

01

02

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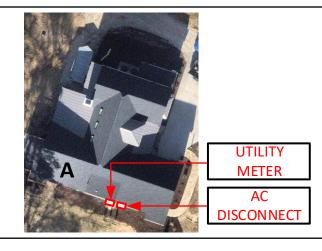
02

01

01

01

Rails and Splices : PSR-B84 (BLACK)	Roof Attachment : Pegasus Comp Mount
Rafter Spacing : 24 in	There is one layer of shingles Roofing material is asphalt shingles
Attachment Span: 4ft	The roof is located in 115mph wind zone





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

Customer Information:

George B Womble

109 Overlook Court Angier NC 27501

Customer Signature:

Sheet Name:

Bill of Material

JOB NUMBER:

CERTIFIED

PV Installation Professional

Ali Buttar PVIP #031310-32

24-336-GW

Date:	Revision:
07/02/2024	В
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV7

RAILS AND MOUNTING SYSTEM

- 48 x PSR-B84: Pegasus Rail, Black, 84" (7 Feet)
- 32 x PSR-SPL: Pegasus Bonded, Structural Splice
- 56 x PSR-MCB: Pegasus Multiclamp, Mid/End, 30 to 40 mm, Black
- 32 x PSR-HEC: Pegasus Hidden End Clamp
- 10 x PSR-LUG: Pegasus Grounding Lug
- 54 x PSR-WMC: Pegasus Wire Management Clip
- 06 x PSR-CBG: Pegasus Cable Grip
- 32 x PSR-CAP: Pegasus End Cap
- 76 x PSCR-UBBDT: Pegasus Comp Mount Open Slot, Black L Foot, Black Flashing, Dovetail 3/8" T-Bolt
- 72 x Heyco Wire Clips

SOLAR MODULES

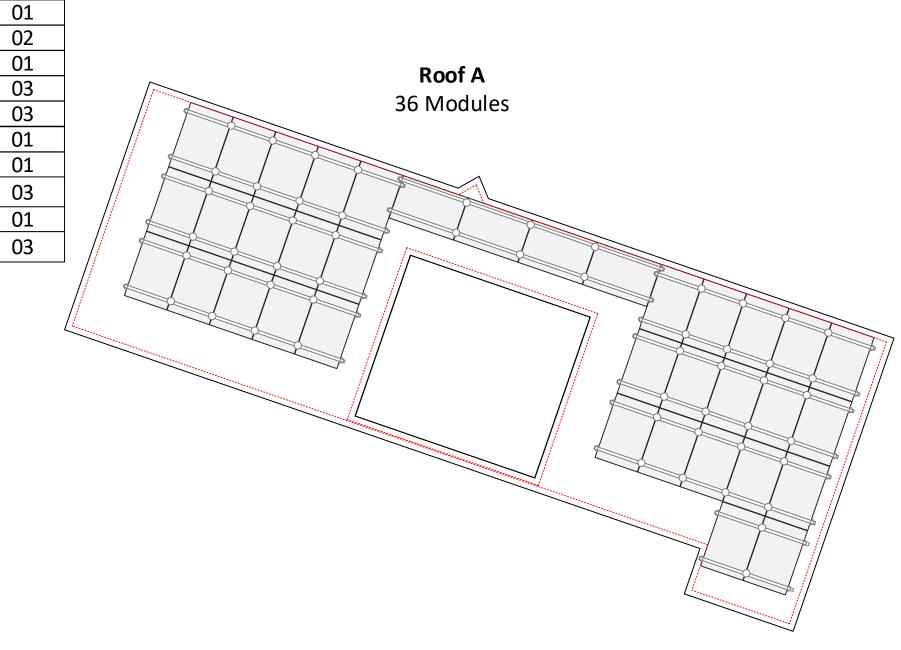
- 36 x Q.TRON BLK M-G2+ 425W
- •
- INVERTER & SUPPORTING ITEMS
- 02 x 1707000-00-J :Tesla Powerwall3
- 12 x 1879359-00-X: Tesla MCI-2
- 01 x 1232100-00-X: Backup GateWay 2
- 01 x 1529623-00-X: Internal Panelboard Kit
- 01 x 1549184-00-X: 02" Conduit Hub Kit

WIRE

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

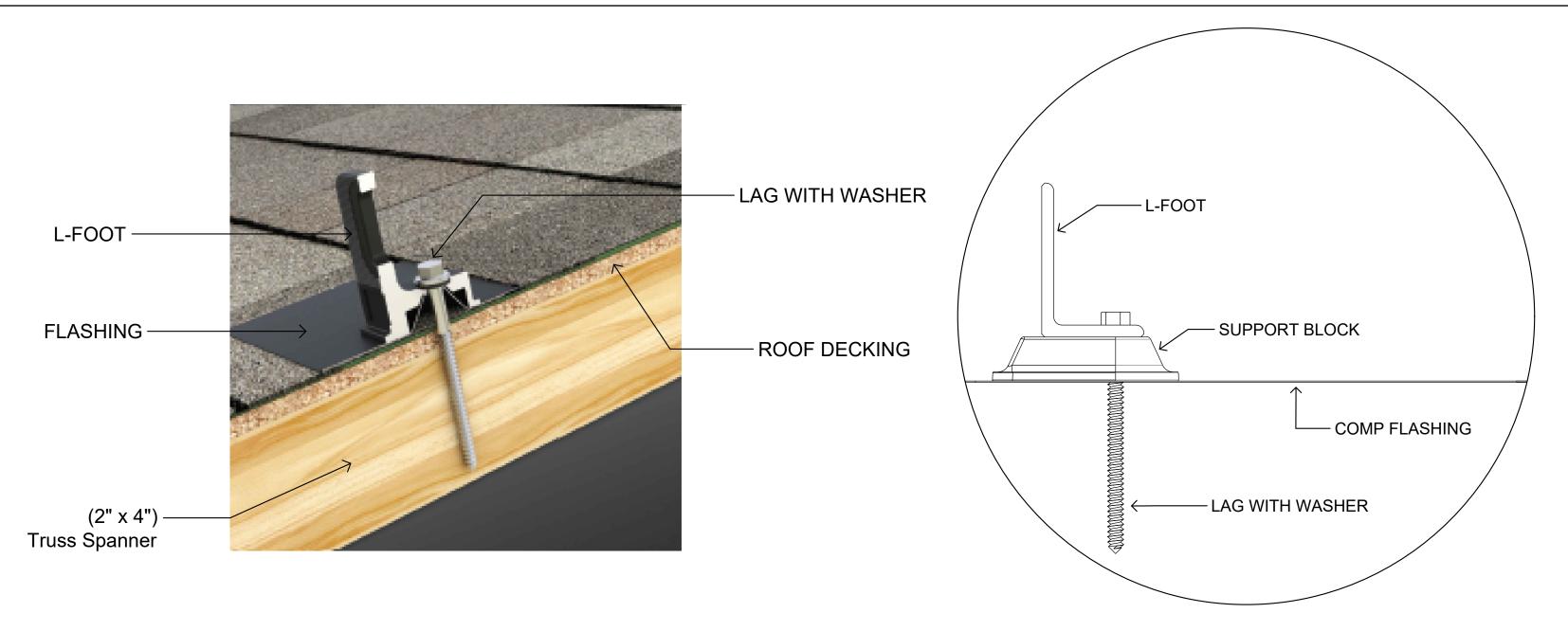
ELECTRICAL ITEMS

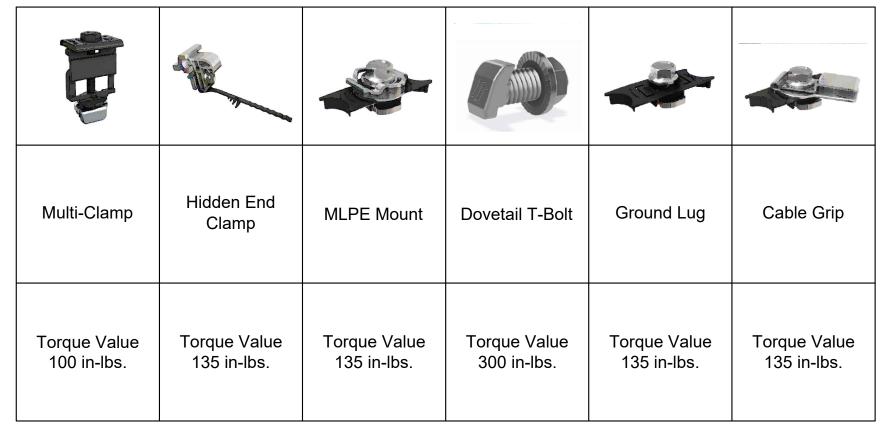
- 01 x BW2200: Gateway Main Breaker-Eaton BW2200
- 01 x BR2125: Eaton BR 125/2
- 02 x BR260: Eaton BR 60/2
- 01 x HOM816L125PRB: Combiner Sub Panel (Sq D HOMELINE) 125A MLO/4-8 space minimum (NEMA 3R)
- 01 x DG224URK: 250volt/200amp/2pole non fusible disconnect (NEMA 3R)
- 01 x EATON M22PVK02: EMG STOP W/ CONTACTOR
- 01 x Eaton M22I1PG: SFC MTG ENC Emergency Stop Enclosure
- 01 x EZSLR JB-1.2: SolaDeck

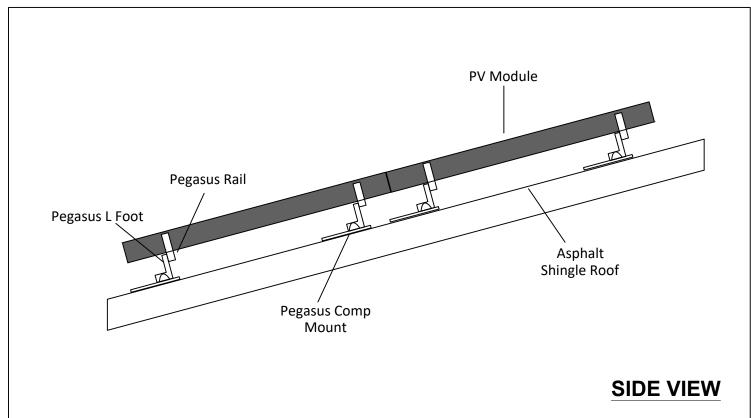


6in setback from sides of the roof

BILL OF MATERIAL
SCALE: 1/8" - 1'









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

Customer Information:

George B Womble

109 Overlook Court Angier NC 27501

Customer Signature:

Sheet Name:

Attachment Details

JOB NUMBER:

CERTIFIED

PV Installation Professional

Ali Buttar

PVIP #031310-32

24-336-GW

Revision:
В
Sheet Number:
PV8

PV Dead Load

Roof A

PV System Dead Load (Panel + Racking weight) / PV System Area

(36 panels x 47.2 lbs./panel + 286 ft. of racking x 1.17 lb.ft) / (36 panels x 5.65' x 3.71') = 2.68 psf

Q.TRON BLK M-G2+ SERIES



405-430 Wp | 108 Cells 22.0% Maximum Module Efficiency

MODEL Q.TRON BLK M-G2+





High performance Qcells N-type solar cells

Q.ANTUM NEO Technology with optimized module layout boosts module efficiency up to 22.0%.



A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty¹.



Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology², Hot-Spot Protect.



Extreme weather rating

High-tech aluminium alloy frame, certified for high snow (8100 Pa) and wind loads (3600 Pa).



Innovative all-weather technology

Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



The most thorough testing programme in the industry

Qcells is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.







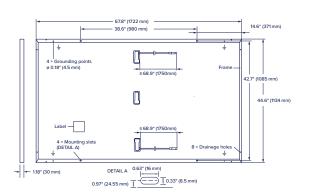


¹ See data sheet on rear for further information.

² APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96h)

■ Mechanical Specification

Format	67.8 in × 44.6 in × 1.18 in (including frame) (1722 mm × 1134 mm × 30 mm)
Weight	46.7 lbs (21.2 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 18 monocrystalline Q.ANTUM NEO solar half cells
Junction box	$2.09\text{-}3.98\text{in}\times 1.26\text{-}2.36\text{in}\times 0.59\text{-}0.71\text{in}$ (53-101 mm \times 32-60 mm \times 15-18 mm), Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥68.9 in (1750mm), (-) ≥68.9 in (1750mm)
Connector	Stäubli MC4; IP68



■ Electrical Characteristics

OWER CLASS			405	410	415	420	425	430
NIMUM PERFORMANCE AT STANDARD	TEST CONDITIONS, ST	C1 (POWER 1	FOLERANCE +5 V	V/-0 W)				
Power at MPP ¹	P _{MPP}	[W]	405	410	415	420	425	430
Short Circuit Current ¹	I _{sc}	[A]	13.33	13.41	13.49	13.58	13.66	13.74
Open Circuit Voltage ¹	V _{oc}	[V]	37.91	38.19	38.47	38.75	39.03	39.32
Current at MPP	I _{MPP}	[A]	12.69	12.76	12.83	12.91	12.98	13.05
Voltage at MPP	V _{MPP}	[V]	31.93	32.13	32.34	32.54	32.74	32.94
Efficiency ¹	η	[%]	≥20.7	≥21.0	≥21.3	≥21.5	≥21.8	≥22.0
NIMUM PERFORMANCE AT NORMAL OP		-						
Power at MPP	P _{MPP}	[W]	306.1	309.9	313.7	317.5	321.2	325.0
Short Circuit Current	I _{sc}	[A]	10.74	10.81	10.87	10.94	11.00	11.07
Open Circuit Voltage	V _{oc}	[V]	35.96	36.23	36.50	36.77	37.04	37.31

9.98

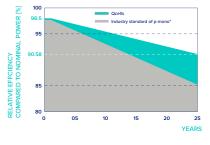
30.66

 \overline{V}_{MPP} [V] Voltage at MPP $^{1}\text{Measurement tolerances P}_{\text{MPP}}\pm3\%; I_{\text{SC}}; V_{\text{OC}}\pm5\% \text{ at STC: }1000 \text{ W/m}^{2}, 25\pm2\text{ °C}, \text{AM 1.5 according to IEC }60904-3 \bullet ^{2}800 \text{ W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC }60904-3 \bullet ^{2}800 \text{ W/m}^{2}, \text{NMOT, spectrum AM 1.5 according to IEC }60904-3 \bullet ^{2}800 \text{ W/m}^{2}, \text{NMOT, spectrum AM 1.5 } 1000 \text{ W/m}^{2}, \text{NMOT, spect$

[A]

Qcells PERFORMANCE WARRANTY

Current at MPP



At least 98.5% of nominal power during first year. Thereafter max. 0.33% degradation per year. At least 95.53% of nominal power up to 10 years. At least 90.58% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Ocells sales organisation of your respective country.

*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

PERFORMANCE AT LOW IRRADIANCE

10.10

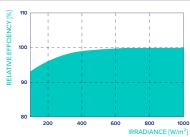
31.07

10.15

31.26

10.04

30.87



Typical module performance under low irradiance conditions in comparison to STC conditions ($25\,^{\circ}\text{C}$, $1000\,\text{W/m}^2$).

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V _{oc}	β	[%/K]	-0.24
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.30	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43+3°C)

■ Properties for System Design

Maximum System Voltage	$V_{\rm SYS}$	[V]	1000 (IEC)/1000 (UL)	PV i
Maximum Series Fuse Rating		[A DC]	25	Fire
Max. Design Load, Push/Pull ³		[lbs/ft²]	113 (5400 Pa)/50 (2400 Pa)	Perr
Max. Test Load, Push/Pull ³		[lbs/ft²]	169 (8100 Pa)/75 (3600 Pa)	on C

3 See Installation Manu	ıal
-------------------------	-----

PV module classification	Class II
Fire Rating based on ANSI/UL 61730	C / TYPE 2
Permitted Module Temperature	-40°F up to +185°F
on Continuous Duty	(-40°C up to +85°C)

■ Qualifications and Certificates

UL61730-1 & UL61730-2, CE-compliant, Quality Controlled PV - TÜV Rheinland, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells).









10.21

31.46

10.27

31.65

_series_405-430_DA_2023-12_Rev02_NA



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

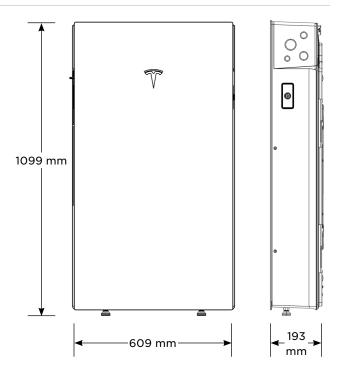
⁶ Performance may be de-rated at operating temperatures above 40°C (104°F).

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 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 Gateway 2

Backup Gateway 2 controls connection to the grid when paired with Powerwall 3, automatically detecting outages and providing seamless transition to backup power. Backup Gateway 2 also provides energy metering for solar self-consumption, time-based control, and backup operation.

In this system configuration, Powerwall 3 acts as the Site Controller, with the Backup Gateway 2 Site Controller disabled.

Performance Specifications

1232100-xx-y
120/240 V
Split phase
60 Hz
200 A
10 kA ⁸
100 - 200 A, Service entrance rated ⁸
Category IV
Revenue accurate (+/- 0.2%)
Revenue accurate (+/- 2%)
Ethernet, Wi-Fi
Cellular (3G, LTE/4G) ⁹

User Interface	Tesla App
Operating Modes	Support for solar self- consumption, time-based control, and backup
Backup Transition	Automatic disconnect for seamless backup
Modularity	Supports up to 10 AC- coupled Powerwalls
Optional Internal Panelboard	200 A 6-space / 12 circuit breakers Siemens QP or Square D HOM breakers rated 10 - 80A or Eaton BR breakers rated 10 - 125A
Warranty	10 years

- ⁸ When protected by Class J fuses, Backup Gateway 2 is suitable for use in circuits capable of delivering not more than 22kA symmetrical amperes.
- ⁹ The customer is expected to provide internet connectivity for Backup Gateway 2; cellular should not be used as the primary mode of connectivity. Cellular connectivity subject to network operator service coverage and signal strength.

Environmental Specifications

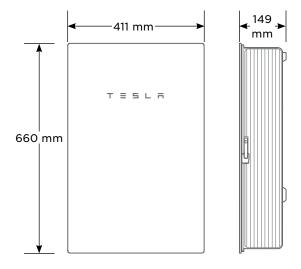
Operating Humidity (RH)Up to 100%, condensingMaximum Elevation3000 m (9843 ft)
Maximum Elevation 3000 m (9843 ft)
Environment Indoor and outdoor rated
Enclosure Type NEMA 3R

Compliance Information

Certifications	UL 67, UL 869A, UL 916, UL 1741 PCS, CSA 22.2 0.19, CSA 22.2 205
Emmissions	FCC Part 15, ICES 003

Mechanical Specifications

Dimensions	660 x 411 x 149 mm (26 x 16 x 6 in)
Weight	20.4 kg (45 lb)
Mounting options	Wall mount, Semi-flush mount



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

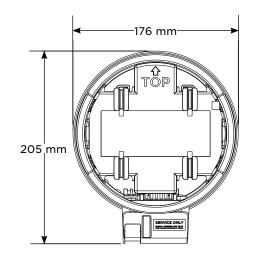
Compliance Information

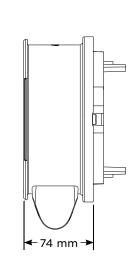
Safety Standards	USA: UL 414, UL 2735, UL 916, CA Prop 65
Emmissions	FCC, ICES

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.

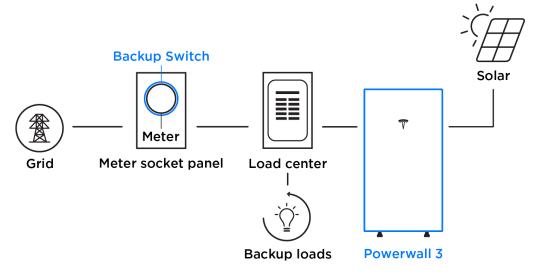




Powerwall 3 Example System Configurations

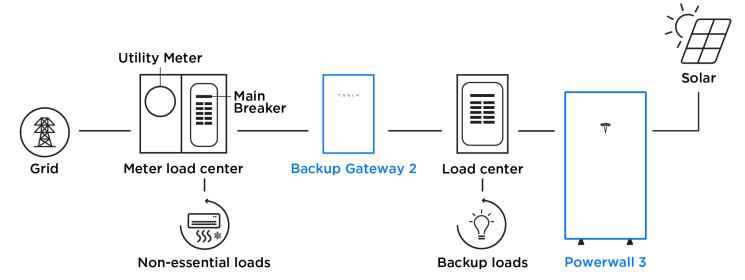
Powerwall 3 with Backup Switch

Whole Home Backup



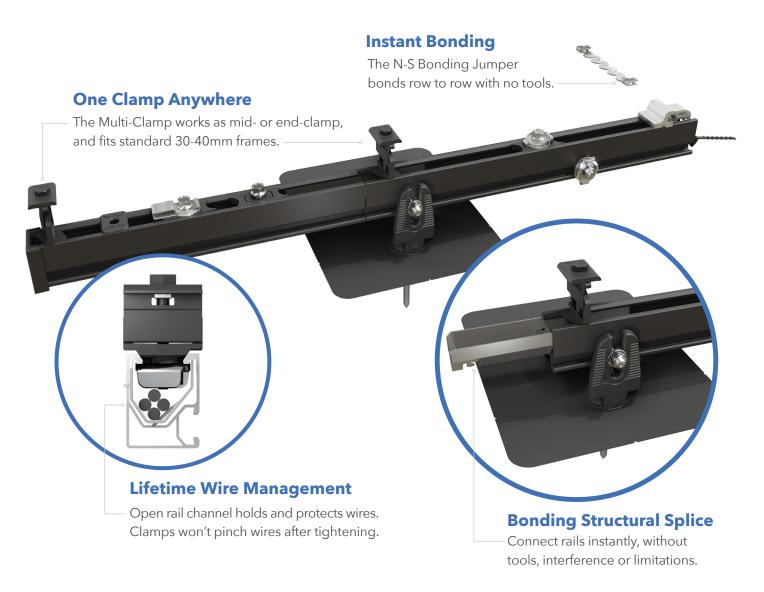
Powerwall 3 with Backup Gateway 2

Partial Home Backup





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









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 T-bolt

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′
0	120				
	160				
	190				
15	140				
	160				
	190				
30	160				
	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.



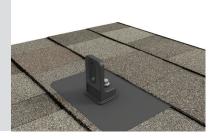
2Optional: Apply a
"u-shape" of sealant to
the underside of the
flashing and position
under 2nd shingle
course, cone over
pilot hole.



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

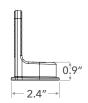


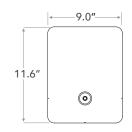
4Drive lag to required depth. Attach rail per rail manufacturer's instructions.



1.5" 3.5"









SPECIFICATIONS	COMP MOUNT INSTALL KITS					
SKU	PSCR-CBB0	PSCR-UBB0	SPCR-CBBH	PSCR-CMM0	PSCR-UMM0	
Finish	Black L-Foot And Black Flashing			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	IBC, ASCE/SEI 7-16, AC286					
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



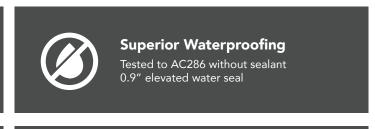
COMP ACCESSORY MOUNT

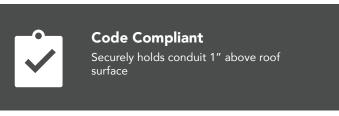


WATERTIGHT FOR LIFE

Pegasus Solar's Comp Accessory Mount secures conduit, a junction box, or other accessories on composition shingle roofs. Designed to last decades, the one-piece flashing with elevated cone means there is simply nothing to fail.









COMP ACCESSORY MOUNT

1. Drill pilot hole into roof decking.



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

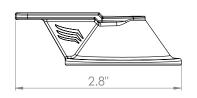


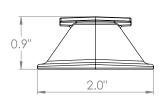
3. Place support block over cone and install lag through one-hole strap and EPDM washer.

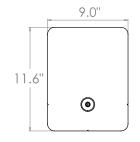


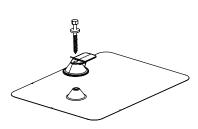
4. Drive lag into roof decking until secure.











Specifications	Comp Accessory Mount Kits			
SKU	PSCA-0MB0	PSCA-0MM0		
Finish	Black Flashing, Mill Support Block	Mill Flashing, Mill Support Block		
Kit Contents	Flashing, Support Block, 1/4" x 2.5" SS lag screw w/ EPDM washer			
Application	Conduit and Pegasus' J-box wing (P/N: PSUA-JM)			
Conduit Sizes	Up to 1 inch			
Roof Type	Composition Shingle			
Flashing Material	Painted Galvalume Plus	Galvalume Plus		
Support Block Material	Aluminum			
Kit Quantity	12			
Boxes per Pallet	216			

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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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