

SCOPE OF WORK

TO INSTALL A SOLAR PHOTOVOLTAIC (PV) SYSTEM AT THE HINOJOSA RESIDENCE,
LOCATED AT 4215 CANFIELD OAKS LN, KATY, TEXAS.
THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED
WITH THE UTILITY GRID THROUGH THE EXISTING ELECTRICAL SERVICE EQUIPMENT.
THE PV SYSTEM DOES INCLUDE STORAGE BATTERIES.

SYSTEM RATING

13.0 kW DC STC
11.3 kW AC

EQUIPMENT SUMMARY

- (36) SUNPOWER SPR-X22-360-E-AC PV MODULES
- (36) SUNPOWER SPR-X22-360-E-AC [240V] PV INVERTERS
- (280) (26 X 10.75') LINEAR FEET SUNPOWER INVISIMOUNT

SHEET INDEX

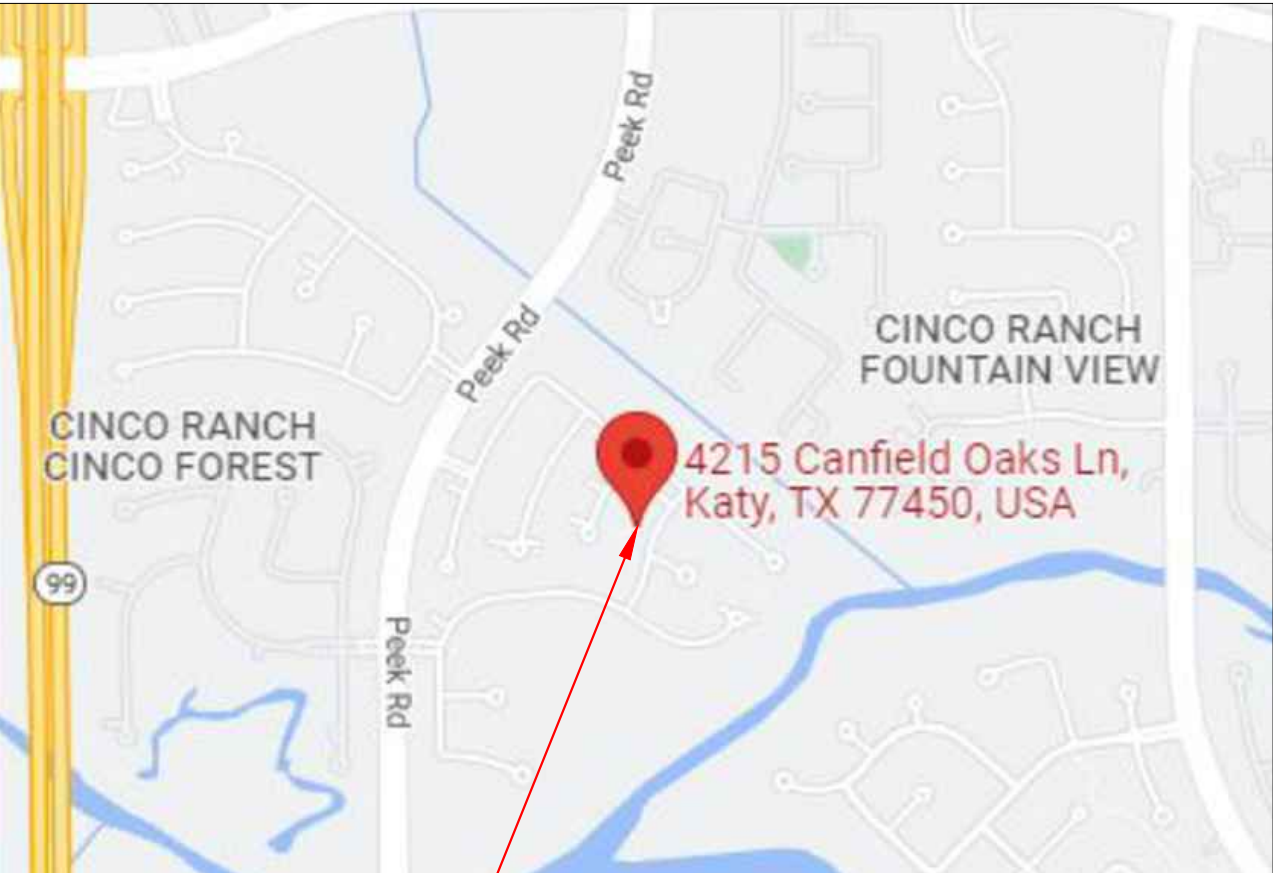
- PV-0 COVER
- PV-1 SITE MAP AND PV LAYOUT
- PV-1A RACKING PLAN
- PV-2 STRING MAP AND MONITORING LAYOUT
- PV-3 ELECTRICAL DIAGRAM
- PV-4 EQ WALL & MOUNTING DETAIL
- PV-5 SYSTEM LABELING DETAIL
- PV-6 SITE DIRECTORY PLACARD
- PV-7 SAFETY PLAN

GOVERNING CODES

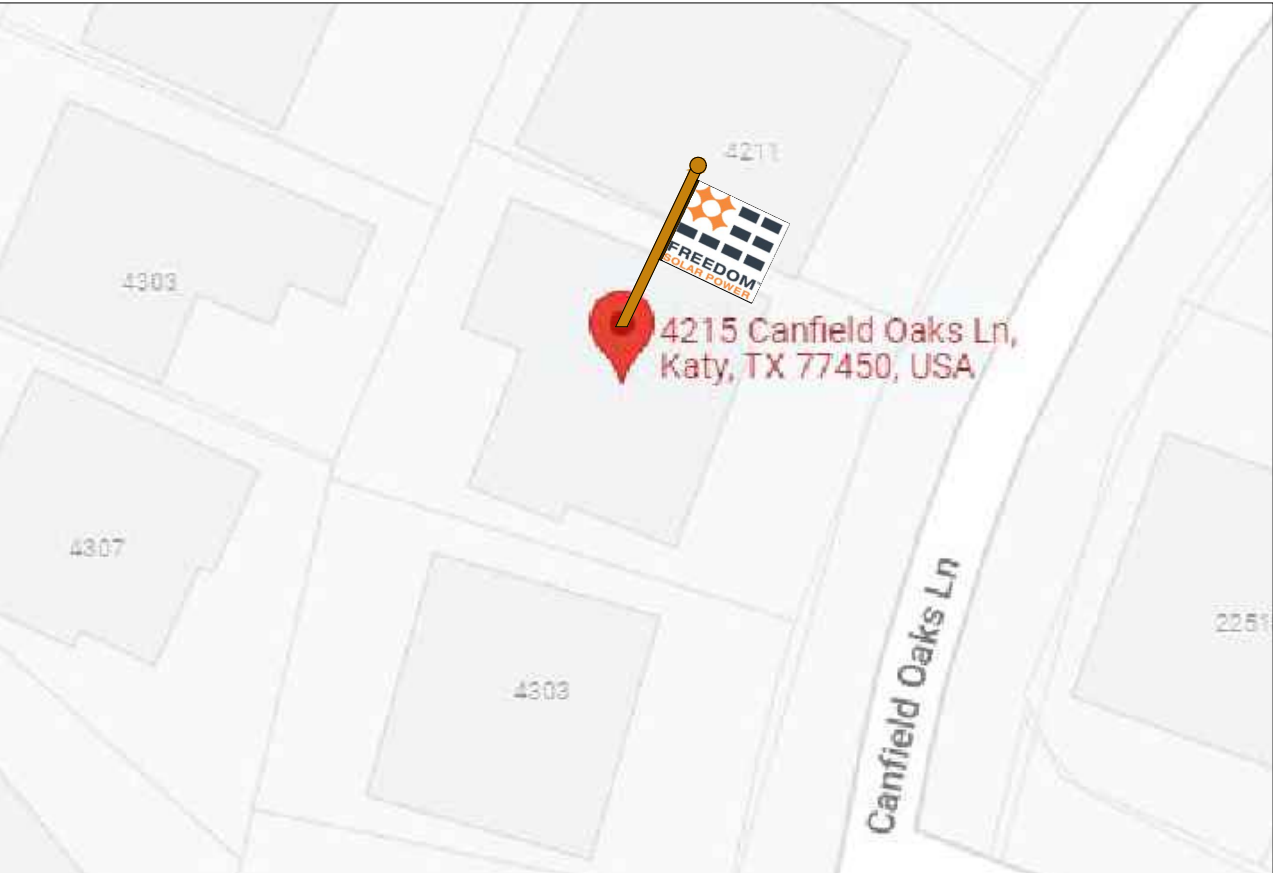
2020 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL RESIDENTIAL CODE
UNDERWRITERS LABORATORIES (UL) STANDARDS
OSHA 29 CFR 1910.269

REVIEWED

By Steven Gambla at 7:00 pm, Mar 06, 2022



PROJECT LOCATION



VICINITY MAP

DESIGN BY
FREEDOM SOLAR, LLC

REVISIONS		
DESCRIPTION	DATE	REV
DESIGN PACKET	03/04/2022	A

CONTRACTOR



FREEDOM
SOLAR POWER

FREEDOM SOLAR LLC
4801 FREIDRICH LN, STE 100
AUSTIN, TX 78744
TECL # 28621
TBPE FIRM # F-17690

PROJECT NAME

HINOJOSA, LAURA
4215 CANFIELD OAKS LN
KATY, TEXAS, 77450
(561) 714-6939

SHEET NAME

COVER

SHEET SIZE

ANSI B
11" x 17"

SHEET NUMBER

PV-0

LEAD ID: 100841

CONSTRUCTION SUMMARY

- (36) (SUNPOWER SPR-X22-360-E-AC) SOLAR MODULES, 13.0 kW DC STC
MODULE DIMENSIONS = 41.2" X 61.3" X 1.80"
- (36) SUNPOWER SPR-X22-360-E-AC [240V] PV INVERTERS
COMBINED INVERTER OUTPUT = 11.3 kW AC.
- (280) (26 X 10.75') LINEAR FEET SUNPOWER INVISIMOUNT
- (96) SPCR-CH ROOF ATTACHMENTS
- (1) SUNPOWER MONITORING
- (1) TESLA ENERGY GATEWAY 2.0
- (1) TESLA POWERWALL 2.0 BATTERY

SITE DETAILS

ROOF TYPE: ASPHALT SHINGLE
ARRAY #1 - TILT = 32°, AZIMUTH = 114°
ARRAY #2 - TILT = 32°, AZIMUTH = 114°
ARRAY #3 - TILT = 36°, AZIMUTH = 204°
INSTALLATION DIFFICULTY = 10 => HARD

! TWO-STORY HOME
FALL PROTECTION REQUIRED
TALL LADDER NEEDED !

CONSTRUCTION NOTES

- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN-TIGHT WITH MINIMUM NEMA 3R RATING.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.

GROUNDING ELECTRODE
MAIN DISTRIBUTION PANEL
(INSIDE GARAGE WALL)

CENTERPOINT ENERGY
REVENUE METER
#87 657 685
ESID #1008901023809405210100
TESLA ENERGY GATEWAY
(1) TESLA POWERWALL 2.0 BATTERY
SOLAR LOAD CENTER
MONITORING
PW AC DISCONNECT
PV AC DISCONNECT
-VISIBLE BREAK
-LOCKABLE
-LABELED
(OUTSIDE GARAGE WALL)

PV ARRAY #3
(06) MODULES

PV ARRAY #1
(17) MODULES

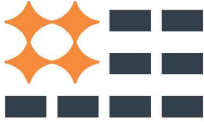
PV ARRAY #2
(13) MODULES



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FREEDOM SOLAR, LLC

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TECL # 28621
TBPE FIRM # F-17690

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SHEET NAME

SITE MAP &
PV LAYOUT

SHEET SIZE

ANSI B
11" x 17"

SHEET NUMBER

PV-1



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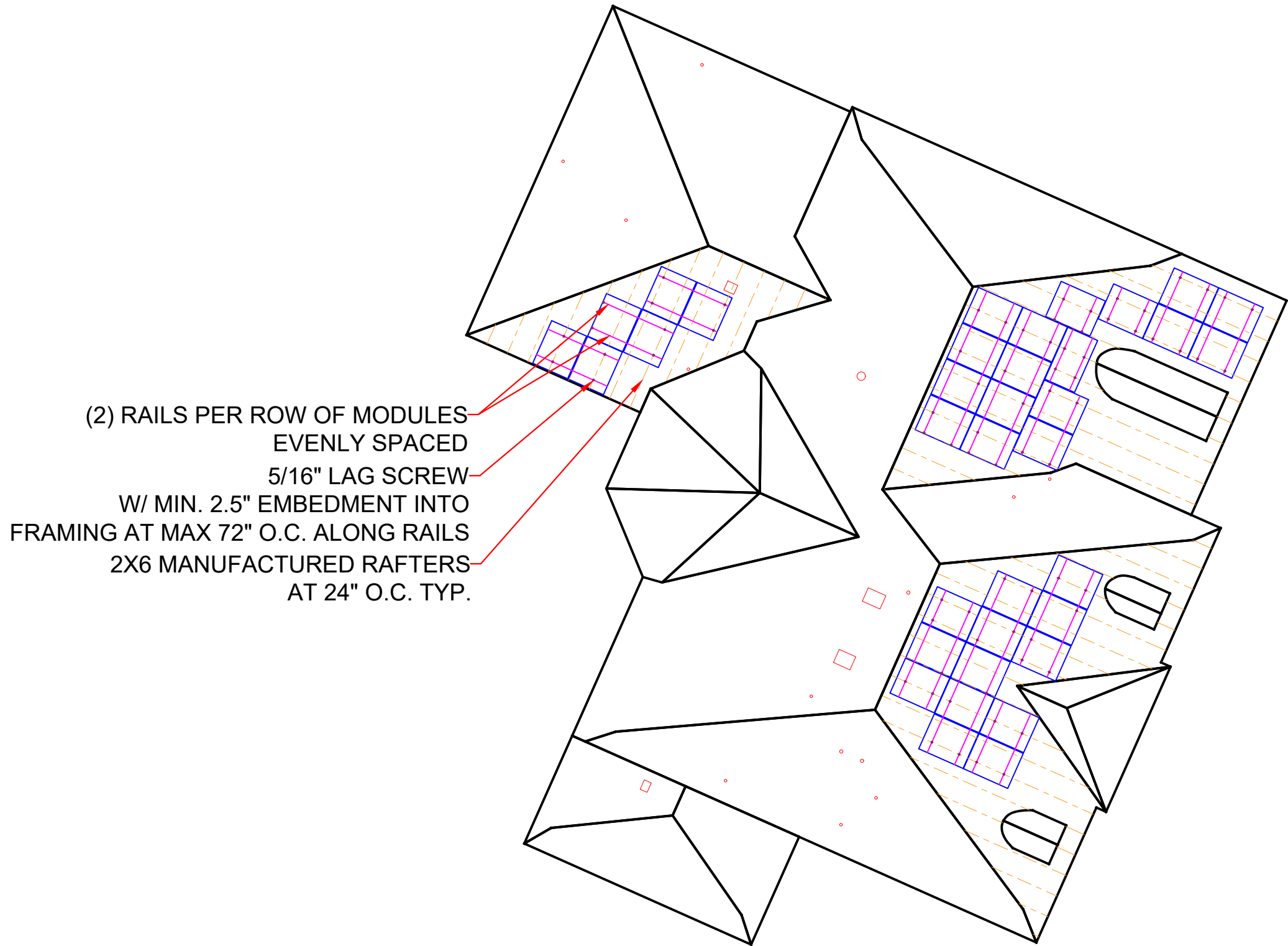
RACKING PLAN

SHEET SIZE

ANSI B
11" x 17"

SHEET NUMBER

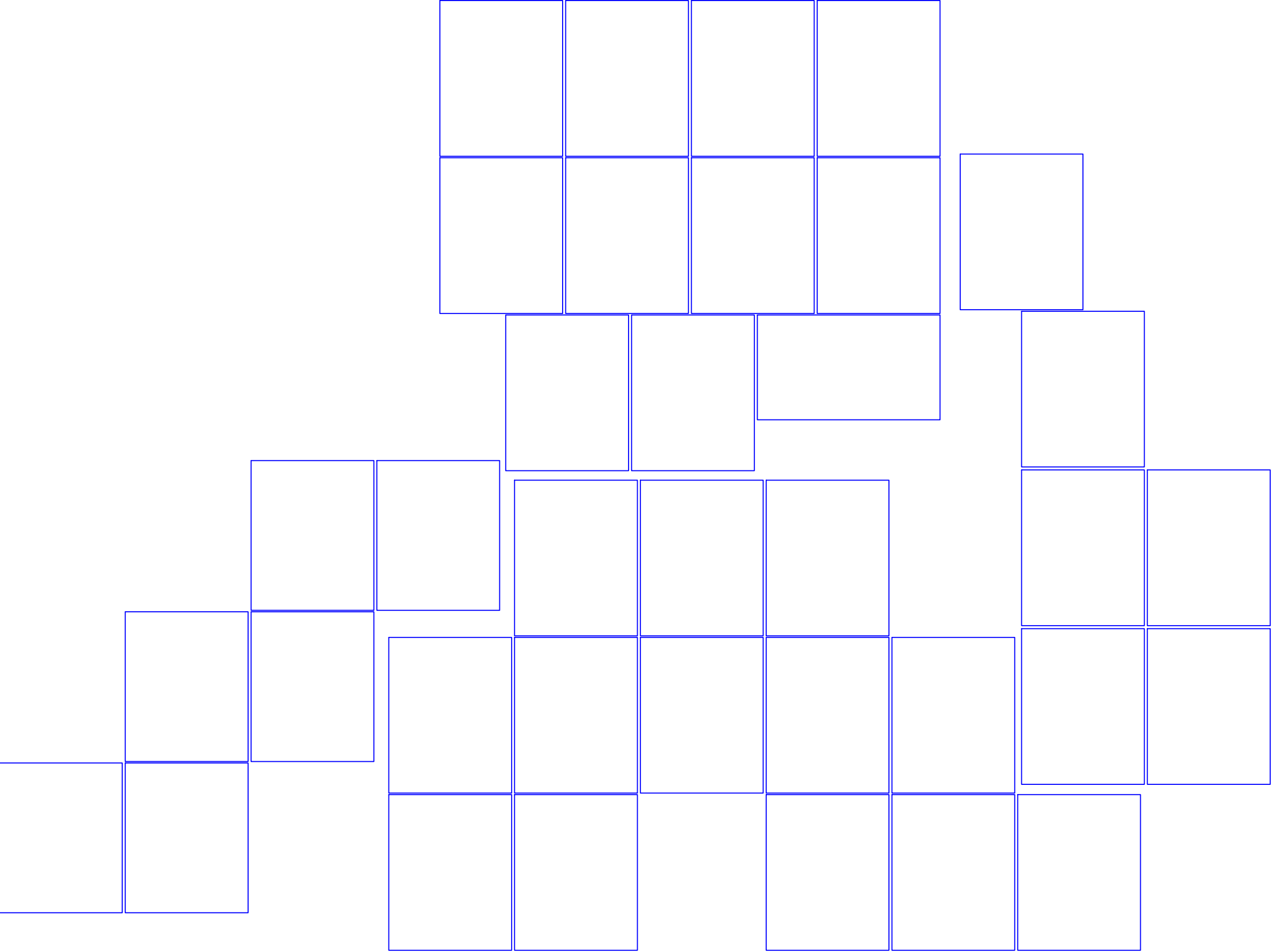
PV-1A



(2) RAILS PER ROW OF MODULES
EVENLY SPACED
5/16" LAG SCREW
W/ MIN. 2.5" EMBEDMENT INTO
FRAMING AT MAX 72" O.C. ALONG RAILS
2X6 MANUFACTURED RAFTERS
AT 24" O.C. TYP.

CONSTRUCTION NOTES

- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN-TIGHT WITH MINIMUM NEMA 3R RATING.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.

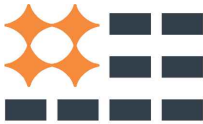


SUNPOWER SUPERVISOR S/N _____

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4215 CANFIELD OAKS LN
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SHEET NAME

STRING MAP
&
MONITORING
LAYOUT

SHEET SIZE

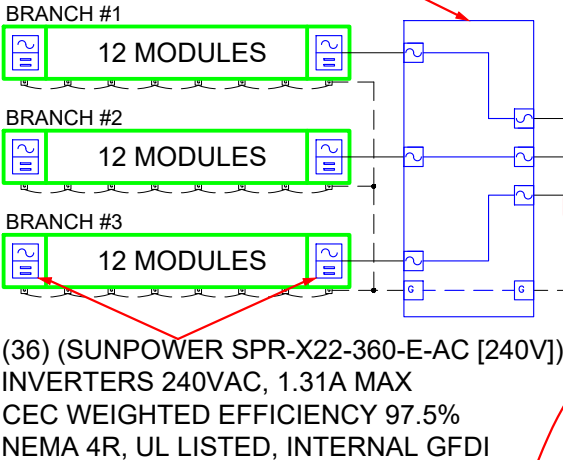
ANSI B
11" x 17"

SHEET NUMBER

PV-2

SOLAR ARRAY - 13.0kW DC STC
(36) (SUNPOWER SPR-X22-360-E-AC) MODULES

JUNCTION BOX:
TRANSITION FROM DG CABLE
TO AWG #10 THWN-2
NEMA 3R, UL LISTED



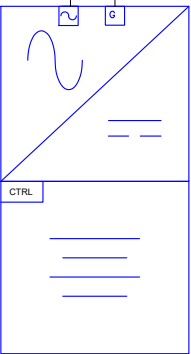
(6) AWG #10 THWN-2
(1) AWG #8 THWN-2 GND
IN 3/4" CONDUIT

SOLAR LOAD CENTER
240 VAC, 125A
NEMA 3R, UL LISTED
(5) 2P-20A BREAKERS

24 VAC
CONTACTOR
SYSTEM

SUNPOWER
MONITORING

(1) BATTERY POWERWALL
TESLA POWERWALL 2 AC
1092170-03-A
5KW, 13.5 KWH
NEMA 3R



PV AC DISCONNECT
240VAC, 60A
NON-FUSIBLE,
NEMA 3R, UL LISTED
VISIBLE, LOCKABLE, LABELED

(3) AWG #6 THWN-2
(1) AWG #8THWN-2 GND
IN 1" CONDUIT

PW DISCONNECT
240VAC, 60A
NON FUSIBLE
NEMA 3R, UL LISTED
VISIBLE, LOCKABLE, LABELED

(3) AWG #10 THWN-2
(1) AWG #10 THWN-2 GND
IN 3/4" CONDUIT

(3) AWG #6 THWN-2
(1) AWG #8 THWN-2 GND
IN 1" CONDUIT



CENTERPOINT ENERGY
REVENUE METER
#87 657 685
ESID #1008901023809405210100
1-PHASE, 240V

(3) #1/0 AWG CU THHN WIRE
IN 1-1/4" CONDUIT

TESLA ENERGY GATEWAY2.0
1P3W, 240VAC
200A, SERVICE RATED
AUTOMATIC DISCONNECT DEVICE
INTERNAL PANEL BOARD
POINT OF INTERCONNECTION
(1) 2P-60A GTB CIRCUIT BREAKER
INSTALLED AT TEG

2P-30A CB POWERWALL BREAKER
INSTALLED AT TEG.

(3) #1/0 AWG CU THHN WIRE
(1) AWG #6 CU GND
IN 1-1/4" CONDUIT

150A
60A GTB
30A CB
150A
MAIN SERVICE DISCONNECT
240V, 150A
MAIN DISTRIBUTION PANEL
CUTLER HAMMER, 1P3W
240V, 200A BUS
EXISTING LOAD

EXISTING GROUNDING
ELECTRODE SYSTEM

ELECTRICAL NOTES

- 1.) ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- 2.) ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90°C WET ENVIRONMENT UNLESS OTHERWISE NOTED.
- 3.) WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- 4.) WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- 5.) DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- 6.) WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- 7.) ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8.) MAXIMUM MOUNTING HEIGHT FROM GRADE TO CENTER OF METER SOCKET SHALL BE 72" FOR RESIDENTIAL SINGLE PHASE METER SOCKETS 0-320 AMPS. MINIMUM MOUNTING HEIGHT IS 30" FROM FOR AUSTIN ENERGY, AND 48" FOR ALL OTHER JURISDICTIONS
- 9.) MINIMUM HORIZONTAL CLEARANCE FROM GAS REGULATOR TO ANY ELECTRICAL ENCLOSURE IS 36", EXCEPT AUSTIN ENERGY WHICH REQUIRES 48" CLEARANCE FROM GAS TO METER SOCKET
- 10.) PV DISCONNECT SHALL BE VISIBLE, LOCKABLE AND LABELED AND THE DOOR CANNOT BE OPENED WHEN HANDLE IS IN ON POSITION
- 11.) BY DEFAULT THE MONITORING DEVICE IS SHOWN CONNECTED TO A 20-AMP BREAKER IN THE SOLAR LOAD CENTER. ALTERNATIVELY, THE MONITORING DEVICE MAY BE CONNECTED TO A 20-AMP BREAKER AT THE MAIN DISTRIBUTION PANEL.
- 12.) ALL EQUIPMENT TERMINATIONS SHALL BE RATED FOR 75 DEGREES OR GREATER
- 13.) ALL CT WIRES SHALL BE CONSIDERED CLASS 1 PER NEC ARTICLE 725, AND BE MARKED AS RATED FOR 600V. PER 725.48(A) CLASS 1 CIRCUITS SHALL BE PERMITTED TO OCCUPY THE SAME RACEWAY AS OTHER CIRCUITS PROVIDED ALL CONDUCTORS ARE INSULATED FOR THE MAXIMUM VOLTAGE OF ANY CONDUCTOR IN THE RACEWAY.
- 14.) AWG #10 COPPER CONDUCTORS ARE SPECIFIED AS THE DEFAULT WIRE REQUIRE FROM THE PV ARRAY TO THE SOLAR LOAD CENTER, HOWEVER, AWG #12 COPPER CONDUCTORS MAY BE UTILIZED IF BOTH OF THE FOLLOWING CONDITIONS ARE MET: THE LENGTH OF THE CONDUCTOR IS LESS THAN 75 FT AND THERE ARE LESS THAN 8 CURRENT-CARRYING CONDUCTORS WITHIN THE RACEWAY.

- UTILITY-CONTROLLED SHUTDOWN REQUIRED TO INSTALL TEG.
- EDUCATE CUSTOMER ABOUT LOAD MGMT IN BACKUP MODE.

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS	CALCULATIONS FOR OVERCURRENT DEVICES
INVERTER OUTPUT WIRE AMPACITY CALCULATION [NEC 690.8(A)(3)]: 1.31A PER INVERTER (SUNPOWER SPR-X22-360-E-AC [240V]) MAXIMUM INVERTER BRANCH CURRENT = (12)(1.31A) = 15.7A CONTINUOUS USE: #10 WIRE 75°C DERATED AMPACITY = (0.80)(35.0A) = 28.0A 28.0A > 15.7A CONDITIONS OF USE: #10 WIRE 90°C DERATED AMPACITY = (0.91)(0.80)(40.0A) = 29.1A 29.1A > 15.7A SOLAR LOAD CENTER OUTPUT WIRE AMPACITY CALCULATION [NEC 690.8(A)(3)]: 1.31A PER INVERTER (SUNPOWER SPR-X22-360-E-AC [240V]) COMBINED CURRENT = (36)(1.31A) = 47.2A CONTINUOUS USE: #6 WIRE 75°C DERATED AMPACITY = (0.80)(65A) = 52.0A 52.0A > 47.2A CONDITIONS OF USE: #6 WIRE 90°C DERATED AMPACITY = (0.91)(75A) = 68.3A 68.3A > 47.2A	INVERTER BRANCH AC CURRENT CALCULATION [NEC 690.8(A)(3)]: 1.31A PER INVERTER (SUNPOWER SPR-X22-360-E-AC [240V]) MAXIMUM BRANCH INVERTER CURRENT = (12)(1.31A) = 15.7A MINIMUM OCPD = (15.7A)(1.25) = 19.6A USE 2P-20A BREAKERS IN SOLAR LOAD CENTER FOR INVERTER BRANCH OCPD SYSTEM AC CURRENT CALCULATION [NEC 690.8(A)(3)]: 1.31A PER INVERTER (SUNPOWER SPR-X22-360-E-AC [240V]) COMBINED CURRENT = (36)(1.31A) = 47.2A MINIMUM OCPD = (47.2A)(1.25) = 59.0A USE 2P-60A GTB BREAKERS IN TEG-2 FOR SYSTEM OCPD CALCULATION FOR OVERCURRENT POWERWALL DEVICES TESLA POWERWALL OUTPUT CURRENT CALCULATION 24.0A PER TESLA POWERWALL 2 BATTERY INVERTER COMBINED CURRENT = (1)(24.0) = 24.0A MINIMUM OCPD = (24.0A)(1.25) = 30.0A USE (1)2P-30A BREAKER IN TEG-2 FOR POWERWALL OCPD

DESIGN BY
FREEDOM SOLAR, LLC

REVISIONS

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CONTRACTOR



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4215 CANFIELD OAKS LN
KATY, TEXAS, 77450
(561) 714-6939

SHEET NAME

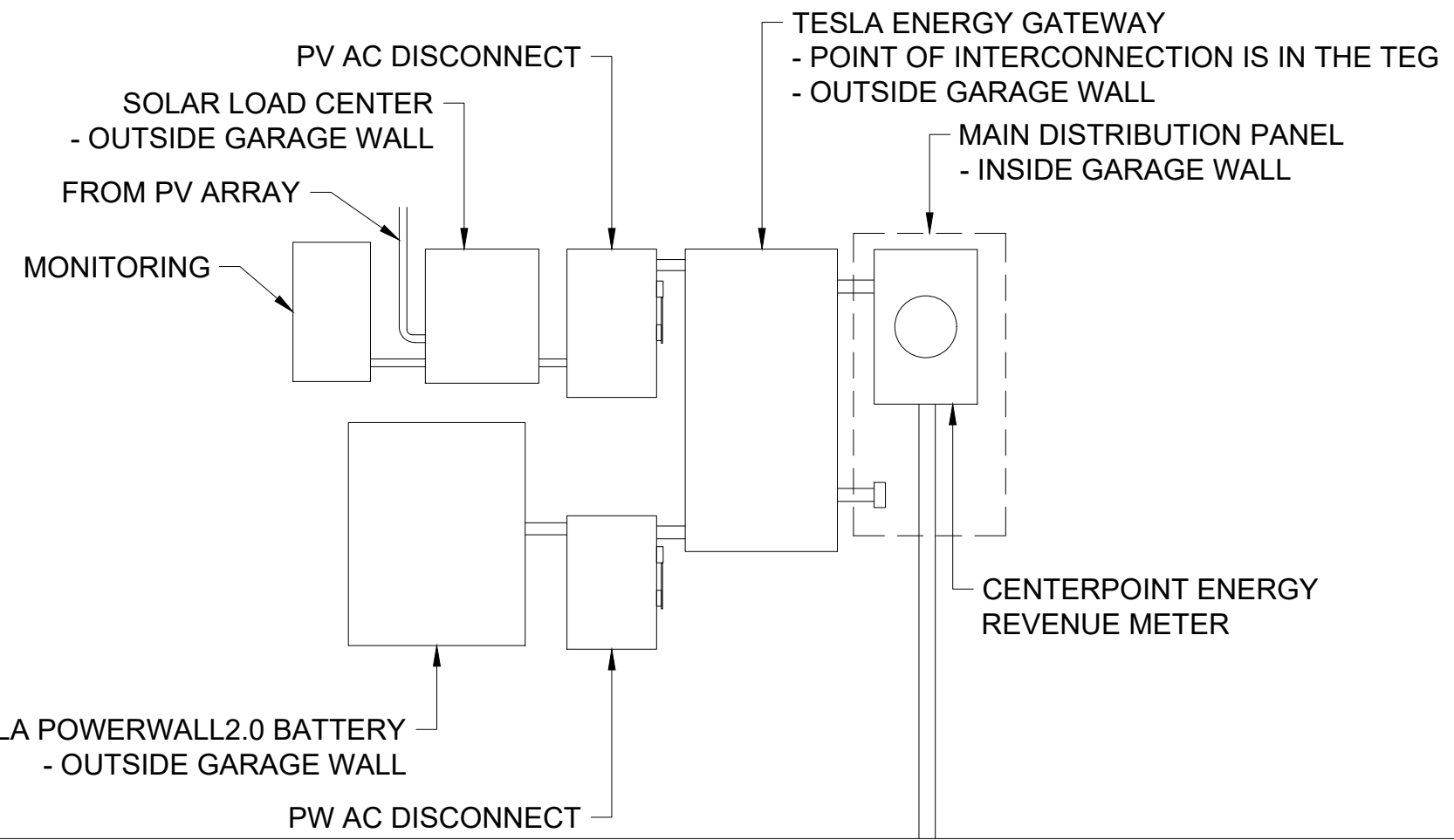
ELECTRICAL
DIAGRAM

SHEET SIZE

ANSI B
11" x 17"

SHEET NUMBER

PV-3



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SOLAR POWER**

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TBPE FIRM # F-17690

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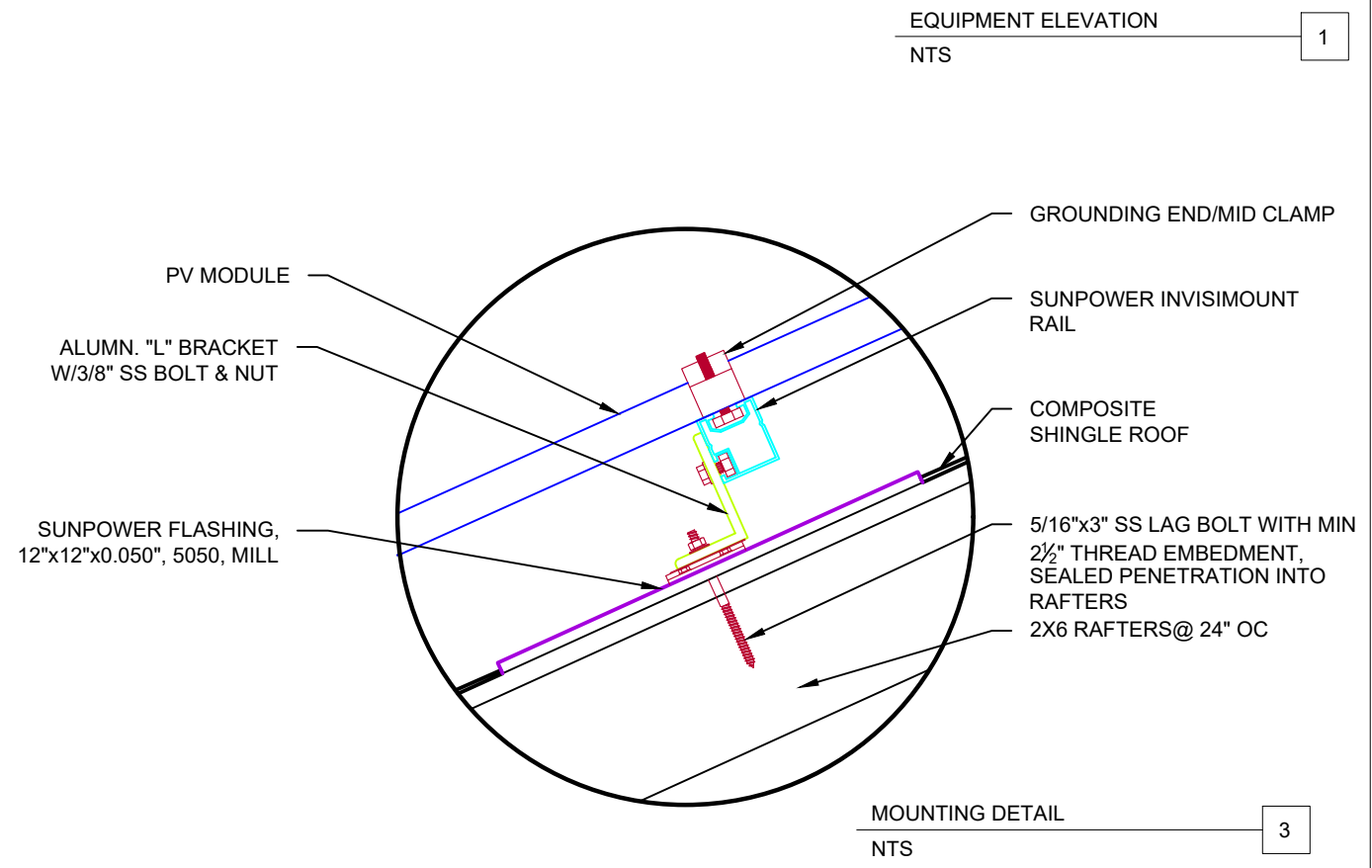
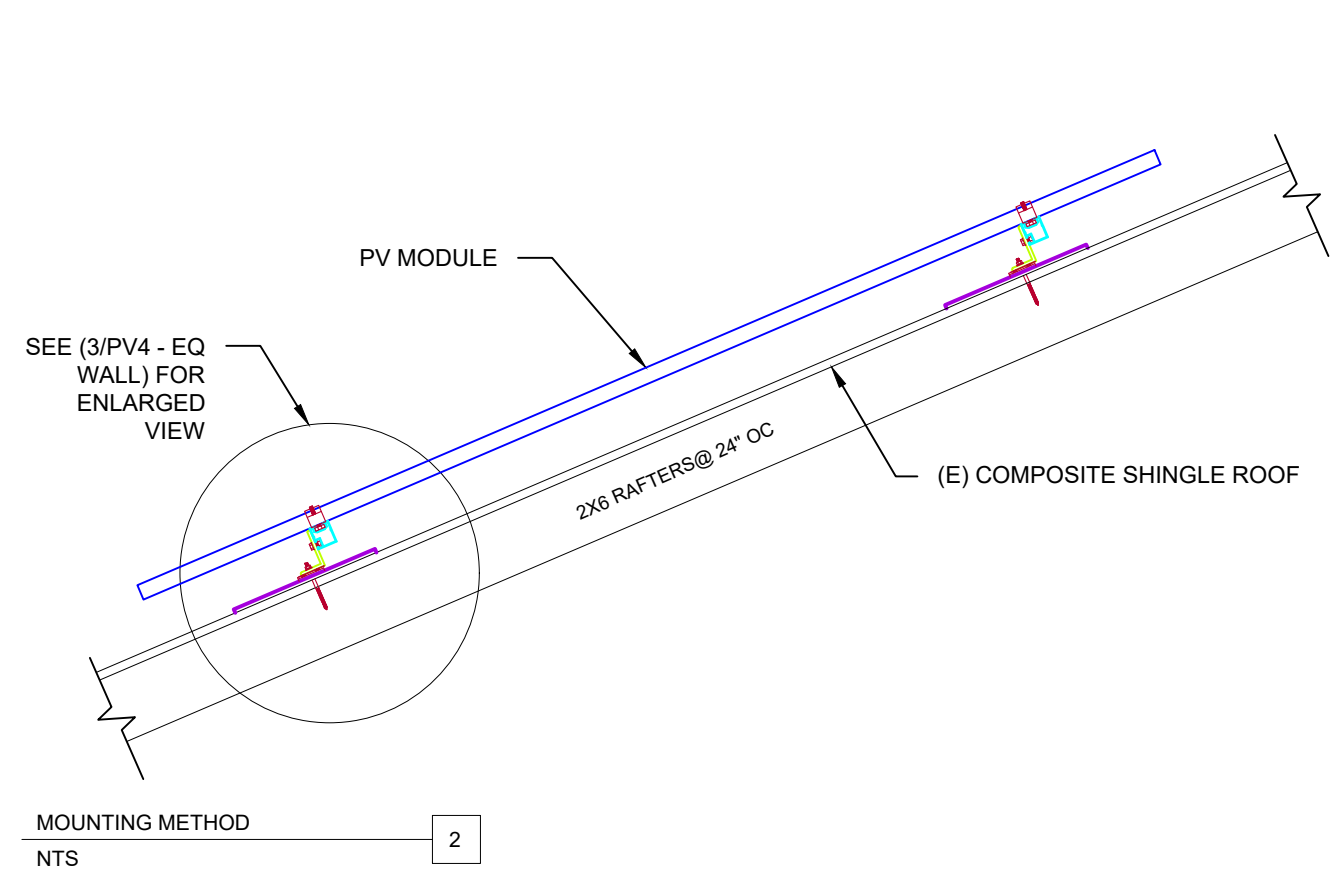
EQ.WALL &
MOUNTING DETAIL

SHEET SIZE

ANSI B
11" x 17"

SHEET NUMBER

PV-4



EQUIPMENT ELEVATION
NTS

1

MOUNTING METHOD
NTS

2

MOUNTING DETAIL
NTS

3

NOTE: NOT ALL LABELS MAY BE APPLICABLE

WARNING
ELECTRIC SHOCK HAZARD.
DO NOT TOUCH TERMINALS.
TERMINALS ON BOTH THE
LINE AND LOAD SIDES MAY BE
ENERGIZED IN THE OPEN
POSITION.

REQ'D BY: NEC 690.13 (B)

A

APPLY TO:
PV DISCONNECT

WARNING
-SOLAR LOAD CENTER-
THIS EQUIPMENT FED BY
MULTIPLE SOURCES, TOTAL RATING
OF ALL OVERCURRENT DEVICES,
EXCLUDING MAIN SUPPLY
OVERCURRENT DEVICES, SHALL NOT
EXCEED AMPACITY OF BUSBAR.

REQ'D BY: 705.12(B)(3)(3)

B

APPLY TO:
SOLAR LOAD CENTER

PV SYSTEM DISCONNECT

OPERATING CURRENT: 47.2 A
PERATING VOLTAGE: 240 VAC

REQ'D BY: NEC 690.13(B); 690.54

C

APPLY TO:
PV DISCONNECT

WARNING
POWER SOURCE OUTPUT
CONNECTION. DO NOT
RELOCATE THIS
OVERCURRENT DEVICE

REQ'D BY: NEC 705.12(B)(3)(2)

D

APPLY TO:
PV SYSTEM BREAKER

WARNING
DUAL POWER SUPPLY
SOURCES: UTILITY GRID AND
PV SOLAR ELECTRIC SYSTEM

REQ'D BY: NEC 705.12(C)

E

MAIN SERVICE PANEL

WARNING: PHOTOVOLTAIC
POWER SOURCE

REQ' BY: NEC 690.31(D)(2)*

F

APPLY TO:
CONDUIT EVERY 10 FT
(*ONLY REQUIRED FOR RACEWAYS
WITH PV **DC** CIRCUITS)

**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.

REQ'D BY: FREEDOM SOLAR

G

APPLY TO:
MAIN DISTRIBUTION PANEL

CAUTION:
MULTIPLE SOURCES OF POWER

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE
FOLLOWING SOURCES WITH DISCONNECTS AS SHOWN:

UTILITY SUPPLY & CUSTOMER
SERVICE PANEL

PV AC DISCONNECT

RAPID SHUTDOWN SWITCH

REQ'D BY: 705.10*

H

APPLY TO:
MAIN DISTRIBUTION PANEL
(*ONLY REQUIRED IF PV SYSTEM
DISCONNECT IS NOT GROUPED
WITH MAIN SERVICE DISCONNECT)
**SEE SHEET PV-6 FOR SITE
SPECIFIC LABEL**

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KATY, TEXAS, 77450
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SHEET NAME

SYSTEM
LABELING
DETAIL

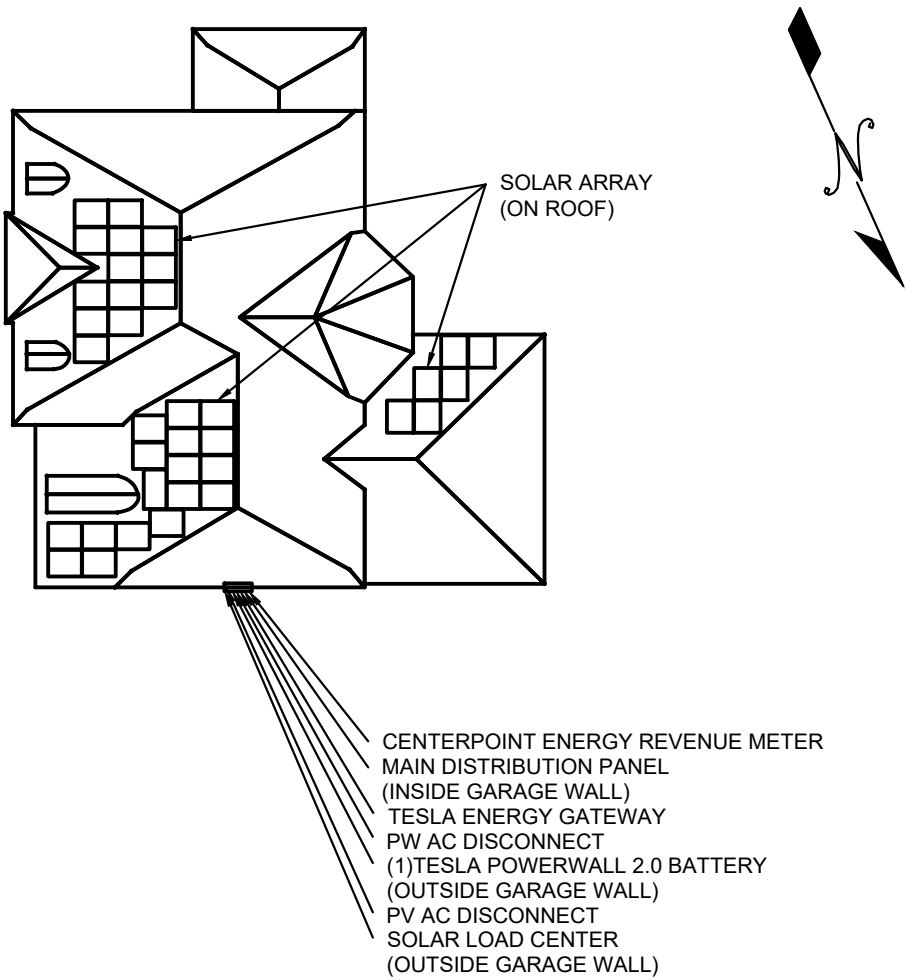
SHEET SIZE

ANSI B
11" x 17"

SHEET NUMBER

PV-5

CAUTION:
MULTIPLE SOURCES OF POWER
LOCATION OF EACH POWER SOURCE
DISCONNECTING MEANS SHOWN BELOW



QUESTIONS, CALL:
800-504-2337
www.freedomssolarpower.com



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SOLAR POWER

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PROJECT NAME

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SHEET NAME

SITE
DIRECTORY
PLACARD

SHEET SIZE

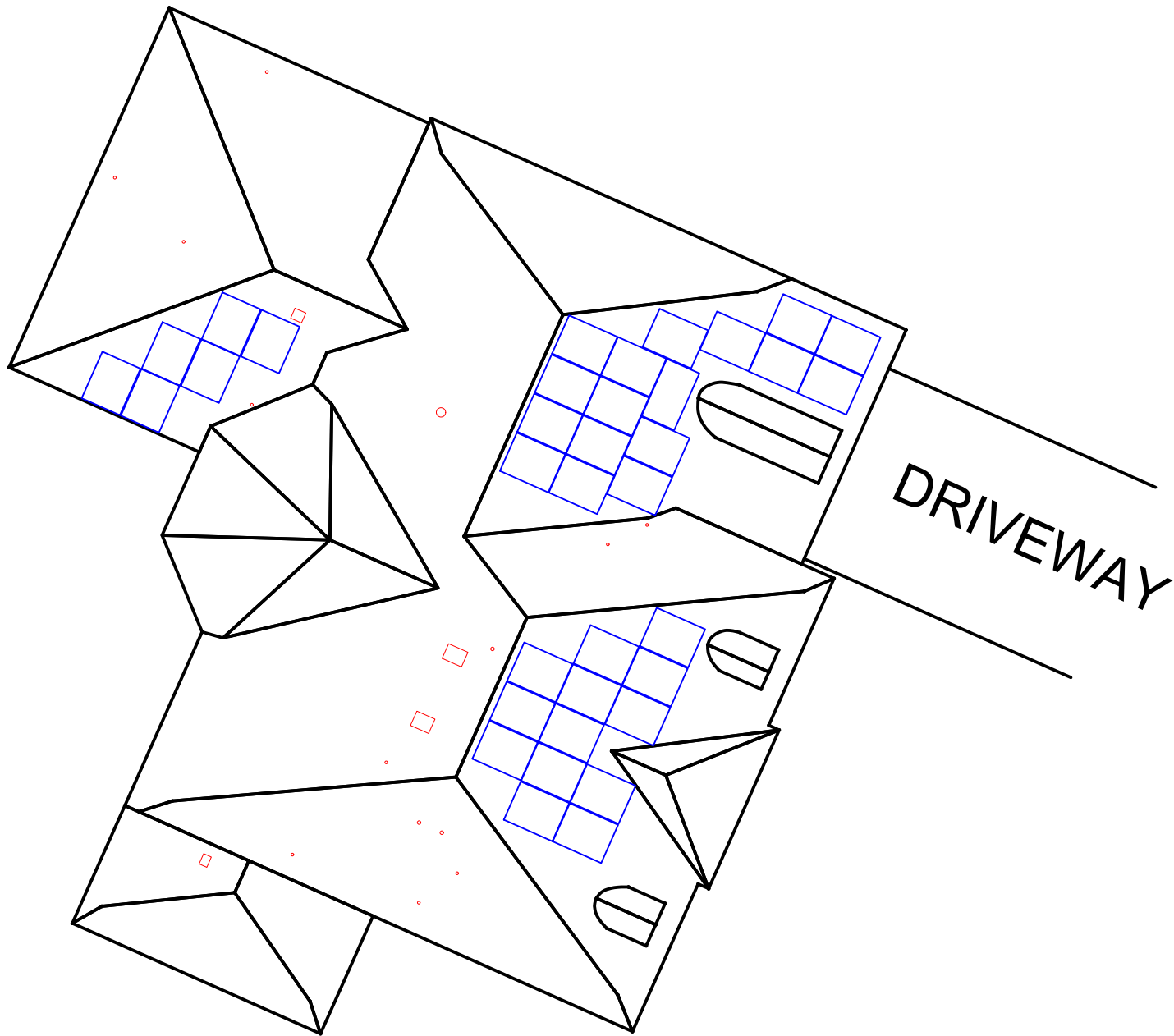
ANSI B
11" x 17"

SHEET NUMBER

PV-6

DRAW IN CONTROLLED ACCESS ZONE (CAZ) BOUNDARY AND LADDER PLACEMENT ON SITE PLAN BELOW.

HARD HAT IS REQUIRED AT ALL TIMES IN CAZ



COMPETENT PERSON: _____ JOB START DATE: _____

CONDUCT SAFETY MEETING WITH ALL CREW MEMBERS ON SITE AT THE BEGINNING OF EACH JOB. USE SIGN IN SHEET BELOW.

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____

GUEST SIGN IN

- 1. _____
- 2. _____
- 3. _____

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(561) 714-6939

SHEET NAME

SAFETY
PLAN

SHEET SIZE

ANSI B
11" x 17"

SHEET NUMBER

PV-7



SUNPOWER®

SunPower® X-Series: X22-370 | X22-360

SunPower® Residential AC Module

Built specifically for use with the SunPower Equinox™ system, the only fully integrated solution designed, engineered, and warranted by one manufacturer.



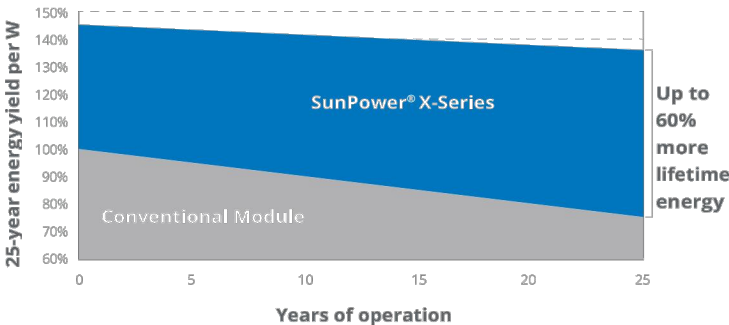
Maximum Power. Minimalist Design.

Industry-leading efficiency means more power and savings per available space. With fewer modules required and hidden microinverters, less is truly more.



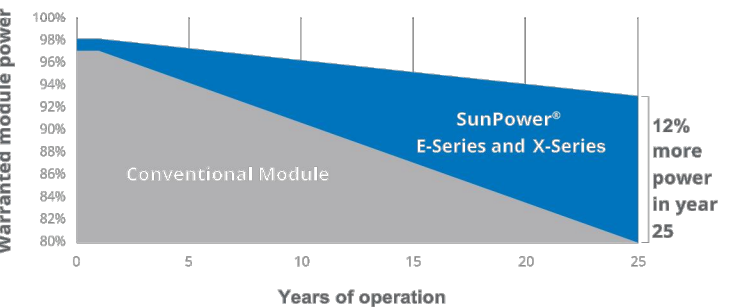
Highest Lifetime Energy and Savings.

Designed to deliver 60% more energy over 25 years in real-world conditions like partial shade and high temperatures.¹



Best Reliability. Best Warranty.

With more than 25 million modules deployed around the world, SunPower technology is proven to last. That's why we stand behind our module and microinverter with the industry's best 25-year Combined Power and Product Warranty, including the highest Power Warranty in solar.



X-Series: X22-370 | X22-360 SunPower® Residential AC Module

AC Electrical Data	
Inverter Model: Type E (IQ 7XS)	@240 VAC
Peak Output Power	320 VA
Max. Continuous Output Power	315 VA
Nom. (L-L) Voltage/Range ² (V)	240 / 211–264
Max. Continuous Output Current (A)	1.31
Max. Units per 20 A (LL) Branch Circuit ³	12 (single phase)
CEC Weighted Efficiency	97.5%
Nom. Frequency	60 Hz
Extended Frequency Range	47–68 Hz
AC Short Circuit Fault Current Over 3 Cycles	5.8 A rms
Overvoltage Class AC Port	III
AC Port Backfeed Current	18 mA
Power Factor Setting	1.0
Power Factor (adjustable)	0.7 lead. / 0.7 lag.
No active phase balancing for three-phase installations	

DC Power Data		
	SPR-X22-370-E-AC	SPR-X22-360-E-AC
Nominal Power ⁵ (Phom)	370 W	360 W
Power Tolerance	+5/–0%	+5/–0%
Module Efficiency ⁵	22.7%	22.1%
Temp. Coef. (Power)	–0.29%/°C	–0.29%/°C
Shade Tolerance	• Three bypass diodes • Integrated module-level maximum power point tracking	

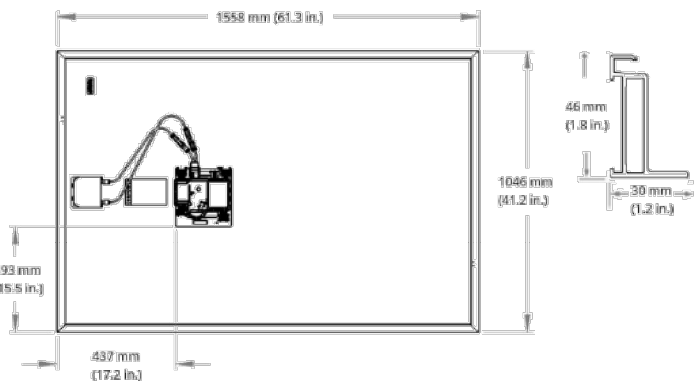
Tested Operating Conditions	
Operating Temp.	–40°F to +185°F (–40°C to +85°C)
Max. Ambient Temp.	122°F (50°C)
Max. Test Load ⁷	Wind: 154 psf, 7400 Pa, 754 kg/m² back Snow: 208 psf, 10000 Pa, 1019 kg/m² front
Design Load	Wind: 62 psf, 3000 Pa, 305 kg/m² back Snow: 125 psf, 6000 Pa, 611 kg/m² front
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)

Mechanical Data	
Solar Cells	96 Monocrystalline Maxeon Gen III
Front Glass	High-transmission tempered glass with anti-reflective coating
Environmental Rating	Module: Outdoor rated Inverter: NEMA Type 6 Class II
Frame	Class 1 black anodized (highest AAMA rating)
Weight	42.9 lb (19.5 kg)
Recommended Max. Module Spacing	1.3 in. (33 mm)

1 SunPower 360 W compared to a conventional module on same-sized arrays (260 W, 16% efficient, approx. 1.6 m²), 4% more energy per watt (based on third-party module characterization and PVSIM), 0.75%/yr slower degradation (Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013).
2 Based on search of datasheet values from websites of top 10 manufacturers per IHS, as of January 2017.
3 #1 rank in "Fraunhofer PVDurability Initiative for Solar Modules: Part 3," PV Tech Power Magazine, 2015.
4 Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013.
5 Factory set to 1547a–2014 default settings, CA Rule 21 default settings profile set during commissioning.
6 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25°C), NREL calibration standard: SOMS current, LACCS FF and voltage. All DC voltage is fully contained within the module.
7 This product is UL Listed as PVFSE and conforms with NEC 2014 and NEC 2017 690.12; and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors; when installed according to manufacturer's instructions.
8 Please read the safety and installation instructions for more information regarding load ratings and mounting configurations.

See www.sunpower.com/facts for more reference information.
For more details, see extended datasheet www.sunpower.com/datasheets Specifications included in this datasheet are subject to change without notice.
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Warranties, Certifications, and Compliance	
Warranties	• 25-year limited power warranty • 25-year limited product warranty
Certifications and Compliance	• UL 1703 • UL 1741 / IEEE-1547 • UL 1741 AC Module (Type 2 fire rated) • UL 62109-1 / IEC 62109-2 • FCC Part 15 Class B • ICES-0003 Class B • CAN/CSA-C22.2 NO. 107.1-01 • CA Rule 21 (UL 1741 SA) ⁴ (Includes Volt/Var and Reactive Power Priority) • UL Listed PV Rapid Shutdown Equipment ⁶
Enables installation in accordance with: • NEC 690.6 (AC module) • NEC 690.12 Rapid Shutdown (inside and outside the array) • NEC 690.15 AC Connectors, 690.33(A)–(E)(1)	
When used with InvisiMount racking and InvisiMount accessories (UL 2703): • Module grounding and bonding through InvisiMount • Class A fire rated When used with AC module Q Cables and accessories (UL 6703 and UL 2238) ⁶ : • Rated for load break disconnect	
PID Test	Potential-induced degradation free



SUNPOWER®

Please read the Safety and Installation Instructions for details.

531945 RevC

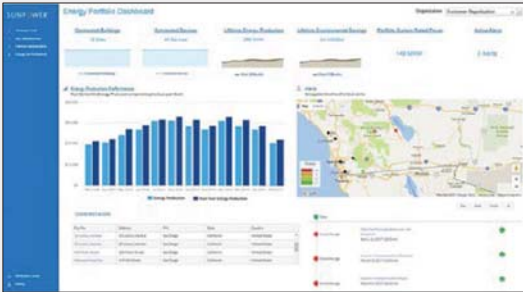


SunPower® EnergyLink™ | Residential and Commercial PVS6

Improve Support, Reduce Maintenance Costs

An intuitive monitoring website enables you to:

- See a visual map of customer sites
- Remotely manage hundreds of sites
- Receive elective system reports
- Locate system issues and remotely diagnose
- Diagnose issues online
- Drill down for the status of individual devices



Add Value for Customers

With the SunPower Monitoring System customers can:

- See what their solar system produces each day, month, or year
- Optimize their solar investment and save on energy expenses
- See their energy use and estimated bill savings
- See their solar system's performance using the SunPower monitoring website or mobile app



SunPower EnergyLink—Plug-and-Play Installation

This complete solution for residential and commercial monitoring and control includes the SunPower® PV Supervisor 6 (PVS6) which improves the installation process, overall system reliability, and customer experience.

- Compact footprint for improved aesthetics
- Robust cloud connectivity and comprehensive local connectivity
- Flexible configuration of devices during installation
- Consumption metering
- Revenue-grade production metering (pending)
- Web-based commissioning
- Remote diagnostics of PVS6 and inverters
- Durable UL Type 3R enclosure reduces maintenance costs
- Easy integration with SunPower eBOS



Robust Cloud Connectivity

Multiple options to maintain optimal connectivity:

- Hardwired Ethernet
- Wi-Fi
- Cellular backup



SunPower® EnergyLink™ | Residential and Commercial PVS6

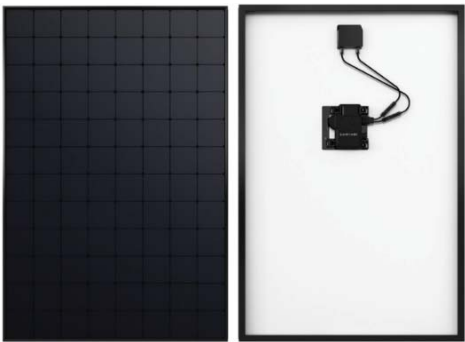
SunPower Monitoring Websites



PVS6



SunPower AC Modules



Multiple communication options include Ethernet, Wi-Fi, and cellular.

Site Requirements	
Number of SunPower AC modules supported per PVS6	85
Internet access	High-speed internet access via accessible router or switch
Power	• 100–240 VAC (L–N), 50 or 60 Hz • 208 VAC (L–L in 3-phase), 60 Hz

Operating Conditions	
Temperature	–22°F to +140°F (–30°C to +60°C)
Humidity (maximum)	95%, non-condensing

Mechanical	
Weight	5.5 lbs (2.5 kg)
Dimensions	11.8 × 8.0 × 4.2 in. (30.5 × 20.5 × 10.8 cm)
Enclosure rating	UL50E Type 3R

Communication	
RS-485	Inverters and meters
Integrated Metering	• One channel of revenue-grade production metering • Two channels of consumption metering
Ethernet	1 LAN (or optional WAN) port
PLC	PLC for SunPower AC modules
Wi-Fi	802.11b/g/n 2.4 GHz and 5 GHz
Cellular	LTE Cat-M1/3G UMTS
ZigBee	IEEE 802.15.4 MAC, 2.4GHz ISM band
Data Storage	60 days
Upgrades	Automatic firmware upgrades

Web and Mobile Device Support	
Customer site	monitor.us.sunpower.com
Partner site	pvsmtgmt.us.sunpower.com
Browsers	Firefox, Safari, and Chrome
Mobile devices	iPhone®, iPad®, and Android™
Customer app	1. Create account online at: monitor.us.sunpower.com. 2. On a mobile device, download the SunPower Monitoring app from Apple App Store® or Google Play™ store. 3. Sign in using account email and password.

Warranty and Certifications	
Warranty	10-year Limited Warranty
Certifications	UL, cUL, CE, UL 61010-1 and -2, FCC Part 15 (Class B)

FCC
FCC ID: YAW529027

UL
LISTED
E503346

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SUNPOWER®

530536 RevC



SunPower® InvisiMount™ | Residential Mounting System

Simple and Fast Installation

- Integrated module-to-rail grounding
- Pre-assembled mid and end clamps
- Levitating mid clamp for easy placement
- Mid clamp width facilitates consistent, even module spacing
- UL 2703 Listed integrated grounding

Flexible Design

- Addresses nearly all sloped residential roofs
- Design in landscape and portrait with up to 8' rail span
- Pre-drilled rails and rail splice
- Rails enable easy obstacle management

Customer-Preferred Aesthetics

- #1 module and #1 mounting aesthetics
- Best-in-class system aesthetics
- Premium, low-profile design
- Black anodized components
- Hidden mid clamps and capped, flush end clamps

Part of Superior System

- Built for use with SunPower DC and AC modules
- Best-in-class system reliability and aesthetics
- Optional rooftop transition flashing, rail-mounted J-box, and wire management rail clips
- Combine with SunPower modules and SunPower EnergyLink® monitoring app



Elegant Simplicity

SunPower® InvisiMount™ is a SunPower-designed rail-based mounting system. The InvisiMount system addresses residential sloped roofs and combines faster installation time, design flexibility, and superior aesthetics. The InvisiMount product was specifically envisioned and engineered to pair with SunPower modules. The resulting system-level approach amplifies the aesthetic and installation benefits—for homeowners and for installers.



SunPower® InvisiMount™ | Residential Mounting System

InvisiMount Components

Module¹ / Mid Clamp and Rail

Ground Lug Assembly

Mid Clamp

Row-to-Row Spacer

Row-to-Row Grounding Clip

End Clamp

Rail and Rail Splice

InvisiMount Component Details		
Mid clamp	Black oxide stainless steel 300 series	63 g (2.2 oz)
End clamp	Black anodized aluminum 6000 series	110 g (3.88 oz)
Rail	Black anodized aluminum 6000 series	830 g/m (9 oz/ft)
Rail splice	Aluminum alloy 6000 series	830 g/m (9 oz/ft)
Rail bolt	M10-1.5 × 25 mm; custom T-head SS304	18 g (0.63 oz)
Rail nut	M10-1.5; DIN 6923 SS304	nominal
Ground lug assembly	SS304; A2-70 bolt; tin-plated copper lug	106.5 g (3.75 oz)
Row-to-row grounding clip	SS 301 with SS 304 M6 bolts	75 g (2.6 oz)
Row-to-row spacer	Black POM-grade plastic	5 g (0.18 oz)

InvisiMount Operating Conditions	
Temperature	−40° C to 90° C (−40° F to 194° F)
Max. Load (LRFD)	• 3000 Pa uplift • 6000 Pa downforce

Roof Attachment Hardware Supported by Design Tool	
Application	• Composition Shingle Rafter Attachment • Composition Shingle Roof Decking Attachment • Curved and Flat Tile Roof Attachment • Universal interface for other roof attachments

InvisiMount Warranties And Certifications	
Warranties	• 25-year product warranty • 5-year finish warranty
Certifications	• UL 2703 Listed • Class A Fire Rated

Roof Attachment Hardware Warranties	
Refer to roof attachment hardware manufacturer's documentation.	

InvisiMount Component LRFD Capacities ²		
Mid clamp	Uplift	664 lbf
	Shear	540 lbf
End clamp	Uplift	899 lbf
	Shear	220 lbf
Rail	Moment: upward	548 lbf-ft
	Moment: downward	580 lbf-ft
Rail splice	Moment: upward	548 lbf-ft
	Moment: downward	580 lbf-ft
L-foot	Uplift	1000 lbf
	Shear	390 lbf

¹ Module frame that is compatible with the InvisiMount system required for hardware interoperability.
² SunPower recommends that all Equinox™, InvisiMount™, and AC module systems always be designed using the InvisiMount Span Tables #524734. If a designer decides to instead use the component capacities listed in this document to design a system, note that the capacities shown are Load and Resistance Factor Design (LRFD) design loads, and are NOT to be used for Allowable Stress Design (ASD) calculations; and that a licensed Professional Engineer (PE) must then stamp all calculations. If you have any questions please contact SunPower Technical Support at 1-855-977-7867.

sunpower.com
509506 RevF

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COMP MOUNT – BLACK



WATERTIGHT FOR LIFE

Pegasus Solar's Comp Mount is 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 coating to outlast the roof itself



Superior Waterproofing

Tested to AC286 without sealant
0.9" elevated water seal



Code Compliant

Fully IBC/CBC Code Compliant
Exceeds ASCE 7-10 Standards



All-In-One Kit Packaging

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

COMP MOUNT – BLACK

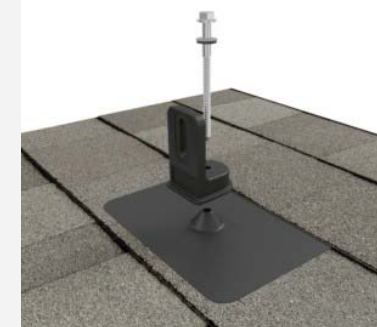
1. Drill pilot hole in center of rafter.



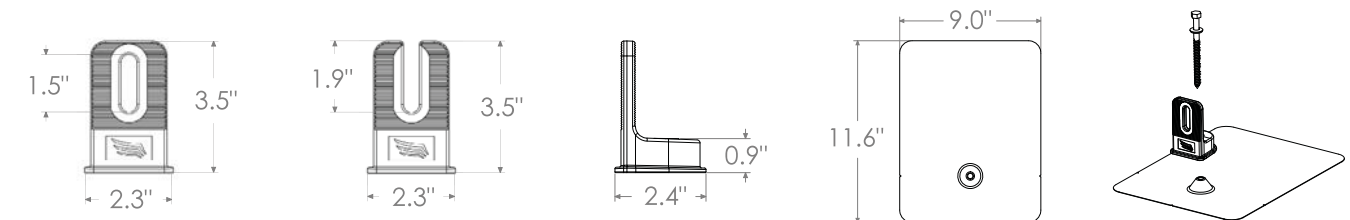
2. Optional: Apply a "U-shape" of sealant to underside of flashing and position under 2nd shingle course, cone over pilot hole.



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



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



Specifications	Black Comp Mount Install Kits		
SKU	PSCR-C0	PSCR-UBB0	SPCR-CH
L-Foot Type	Closed Slot	Open Slot	Closed Slot
Kit Contents	L-Foot, Flashing, 5/16" x 4-1/2" SS Lag w/ EPDM washer	L-Foot, Flashing, 5/16" x 4-1/2" SS Lag w/ EPDM washer	L-Foot, Flashing, 5/16" x 4-1/2" SS Lag w/ EPDM washer, M10 Hex Bolt
Finish	Black L-Foot and Black Flashing		
Roof Type	Composition Shingle		
Certifications	IBC, ASCE/SEI 7-10, AC286		
Install Application	Railed Systems		
Compatible Rail	Most		
Flashing Material	Painted Galvalume Plus		
L-Foot Material	Aluminum		
Kit Quantity	24		
Boxes per Pallet	72		

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Eaton general duty cartridge fuse safety switch

DG222NRB

UPC:782113144221

Dimensions:

- **Height:** 14.37 IN
- **Length:** 7.35 IN
- **Width:** 8.4 IN

Weight:10 LB

Notes:Maximum hp ratings apply only when dual element fuses are used. 3-Phase hp rating shown is a grounded B phase rating, UL listed.

Warranties:

- Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

Specifications:

- **Type:** General duty, cartridge fused
- **Amperage Rating:** 60A
- **Enclosure:** NEMA 3R
- **Enclosure Material:** Painted galvanized steel
- **Fuse Class Provision:** Class H fuses
- **Fuse Configuration:** Fusible with neutral
- **Number Of Poles:** Two-pole
- **Number Of Wires:** Three-wire
- **Product Category:** General duty safety switch
- **Voltage Rating:** 240V

Supporting documents:

- [Eatons Volume 2-Commercial Distribution](#)
- [Eaton Specification Sheet - DG222NRB](#)

Certifications:

- UL Listed

Product compliance: No Data



Eaton general duty non-fusible safety switch

DG222URB

UPC:782113144238

Dimensions:

- **Height:** 14.38 IN
- **Length:** 7.38 IN
- **Width:** 8.69 IN

Weight:9 LB

Notes:WARNING! Switch is not approved for service entrance unless a neutral kit is installed.

Warranties:

- Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

Specifications:

- **Type:** Non-fusible, single-throw
- **Amperage Rating:** 60A
- **Enclosure:** NEMA 3R, Rainproof
- **Enclosure Material:** Painted galvanized steel
- **Fuse Configuration:** Non-fusible
- **Number Of Poles:** Two-pole
- **Number Of Wires:** Two-wire
- **Product Category:** General duty safety switch
- **Voltage Rating:** 240V

Supporting documents:

- [Eatons Volume 2-Commercial Distribution](#)
- [Eaton Specification Sheet - DG222URB](#)

Certifications:

- UL Listed

Product compliance: No Data



Eaton CH main lug loadcenter

CH8L125RP

UPC:782114190548

Dimensions:

- **Height:** 3.69 IN
- **Length:** 13 IN
- **Width:** 11 IN

Weight:12 LB

Notes:Ground bar kits priced separately. Suitable for use as service equipment when not more than two service disconnecting mains are provided or when not used as a lighting and appliance panelboard.

Warranties:

- Limited lifetime

Specifications:

- **Special Features:** Cover included
- **Type:** Main lug only
- **Amperage Rating:** 125A
- **Box Size:** 7r
- **Bus Material:** Copper
- **Enclosure:** NEMA 3R
- **Enclosure Material:** Metallic
- **Feed Type:** Overhead
- **Main Circuit Breaker:** CH
- **Number Of Circuits:** 8
- **Number Of Wires:** Three-wire
- **Phase:** Single-phase
- **Voltage Rating:** 120/240V, 208Y/120, 240V
- **Wire Size:** #6-1/0 AWG

Supporting documents:

- [Type CH Circuit Breakers and Loadcenters](#)
- [Loadcenters and Circuit Breakers](#)
- [Eatons Volume 1-Residential and Light Commercial](#)



Eaton CH main lug loadcenter

CH12L125R

UPC:782113097381

Dimensions:

- **Height:** 5.19 IN
- **Length:** 16.75 IN
- **Width:** 14.31 IN

Weight:15.8 LB

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.

Warranties:

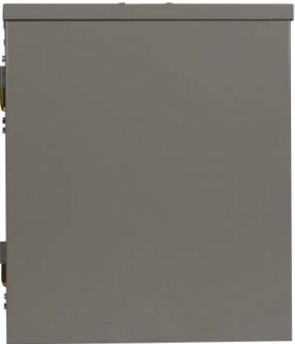
- Limited lifetime

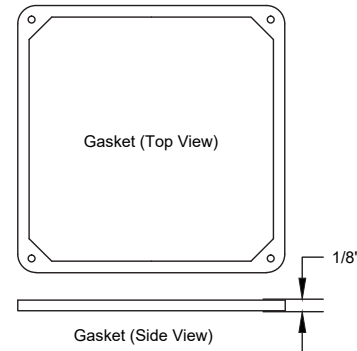
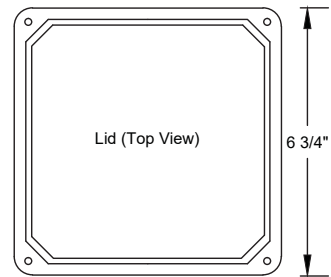
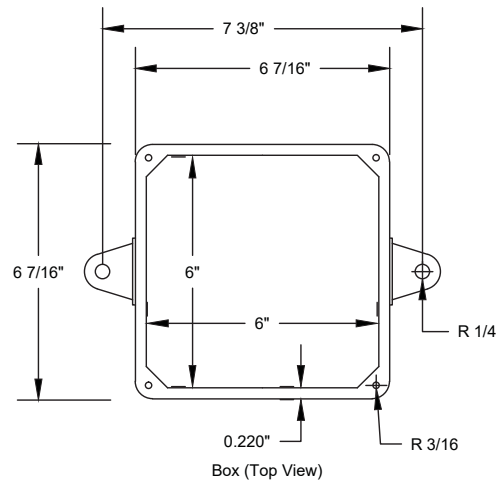
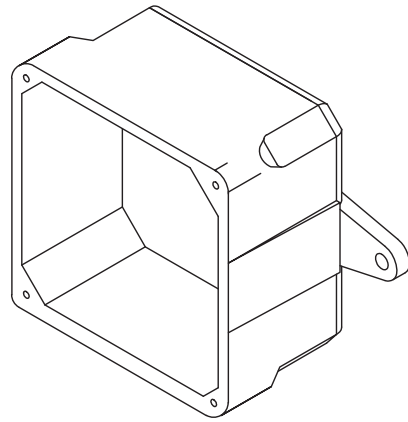
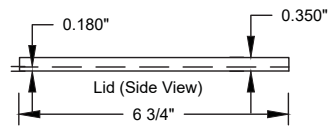
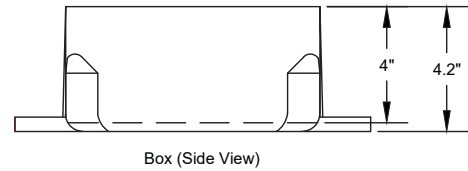
Specifications:

- **Special Features:** Cover included
- **Type:** Main lug only
- **Amperage Rating:** 125A
- **Box Size:** B
- **Bus Material:** Copper
- **Enclosure:** NEMA 3R
- **Enclosure Material:** Metallic
- **Feed Type:** Overhead
- **Main Circuit Breaker:** CH
- **Number Of Circuits:** 12
- **Number Of Wires:** Three-wire
- **Phase:** Single-phase
- **Voltage Rating:** 120/240V
- **Wire Size:** #6-2/0 AWG

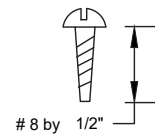
Supporting documents:

- [Dimensional Drawing - CH 3/4 LOADCENTER, MAIN LUG ONLY, OUTDOOR NEMA 3R, 120/240 VAC, 1 PH](#)





UL Listed
Marine Listed
UL File # E205935 (QCUP)
UL Control # 92CM
Material is Rigid PVC
132 cu in Volume (2163 cu cm)
Screws are Zinc Plated Steel
Gasket is neoprene



CANTEX
INC.
Fort Worth, TEXAS

Junction Box 6 x 6 x 4

Drawn By: O.M. Date: 6/19/17 5133710

POWERWALL

Tesla Powerwall is a fully-integrated AC battery system for residential or light commercial use. Its rechargeable lithium-ion battery pack provides energy storage for solar self-consumption, time-based control, and backup.

Powerwall's electrical interface provides a simple connection to any home or building. Its revolutionary compact design achieves market-leading energy density and is easy to install, enabling owners to quickly realize the benefits of reliable, clean power.



PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	120/240 V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Total Energy	14 kWh
Usable Energy	13.5 kWh
Real Power, max continuous	5 kW (charge and discharge)
Real Power, peak (10 s, off-grid/backup)	7 kW (charge and discharge)
Apparent Power, max continuous	5.8 kVA (charge and discharge)
Apparent Power, peak (10 s, off-grid/backup)	7.2 kVA (charge and discharge)
Maximum Supply Fault Current	10 kA
Maximum Output Fault Current	32 A
Overcurrent Protection Device	30 A
Imbalance for Split-Phase Loads	100%
Power Factor Output Range	+/- 1.0 adjustable
Power Factor Range (full-rated power)	+/- 0.85
Internal Battery DC Voltage	50 V
Round Trip Efficiency ^{1,3}	90%
Warranty	10 years

¹Values provided for 25°C (77°F), 3.3 kW charge/discharge power.
²In Backup mode, grid charge power is limited to 3.3 kW.
³AC to battery to AC, at beginning of life.

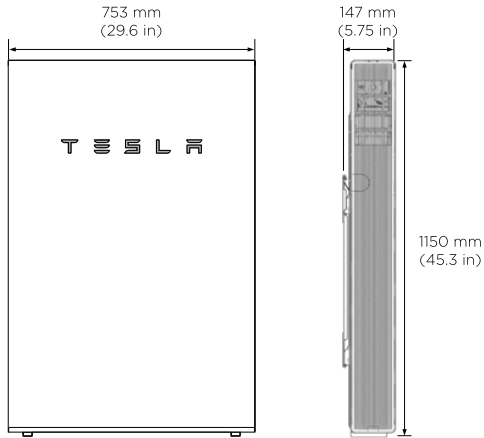
COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, UL 1973, UL 9540, IEEE 1547, UN 38.3
Grid Connection	Worldwide Compatibility
Emissions	FCC Part 15 Class B, ICES 003
Environmental	RoHS Directive 2011/65/EU
Seismic	AC156, IEEE 693-2005 (high)

MECHANICAL SPECIFICATIONS

Dimensions ¹	1150 mm x 755 mm x 147 mm (45.3 in x 29.6 in x 5.75 in)
Weight ¹	114 kg (251.3 lbs)
Mounting options	Floor or wall mount

¹Dimensions and weight differ slightly if manufactured before March 2019. Contact Tesla for additional information.



ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Recommended Temperature	0°C to 30°C (32°F to 86°F)
Operating Humidity (RH)	Up to 100%, condensing
Storage Conditions	-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 Type	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
Wet Location Rating	Yes
Noise Level @ 1m	< 40 dBA at 30°C (86°F)

POWERWALL
Backup Gateway 2

The Backup Gateway 2 for Tesla Powerwall provides energy management and monitoring for solar self-consumption, time-based control, and backup.

The Backup Gateway 2 controls connection to the grid, automatically detecting outages and providing a seamless transition to backup power. When equipped with a main circuit breaker, the Backup Gateway 2 can be installed at the service entrance. When the optional internal panelboard is installed, the Backup Gateway 2 can also function as a load center.

The Backup Gateway 2 communicates directly with Powerwall, allowing you to monitor energy use and manage backup energy reserves from any mobile device with the Tesla app.



PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	120/240V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Current Rating	200 A
Maximum Input Short Circuit Current	10 kA ¹
Overcurrent Protection Device	100-200A; Service Entrance Rated ¹
Overvoltage Category	Category IV
AC Meter	Revenue accurate (+/- 0.2 %)
Primary Connectivity	Ethernet, Wi-Fi
Secondary Connectivity	Cellular (3G, LTE/4G) ²
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	200A 6-space / 12 circuit Eaton BR Circuit Breakers
Warranty	10 years

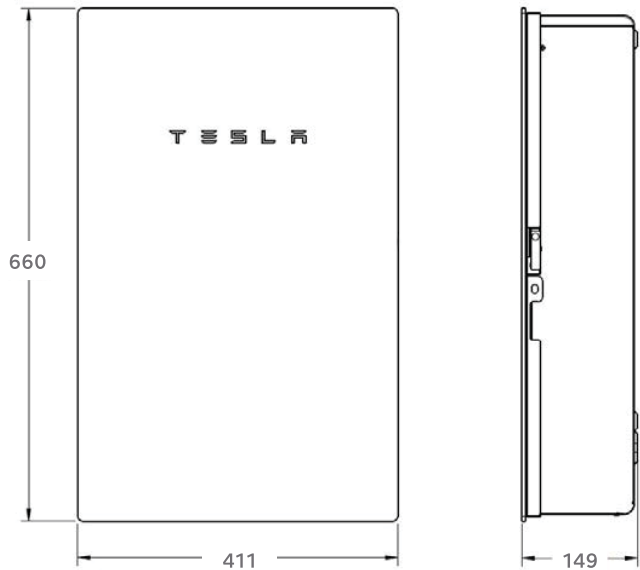
¹When protected by Class J fuses, Backup Gateway 2 is suitable for use in circuits capable of delivering not more than 22kA symmetrical amperes.
²The customer is expected to provide internet connectivity for Backup Gateway 2; cellular should not be used as the primary mode of connectivity. Cellular connectivity subject to network operator service coverage and signal strength.

COMPLIANCE INFORMATION

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

MECHANICAL SPECIFICATIONS

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



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