SCOPE OF WORK

TO INSTALL A SOLAR PHOTOVOLTAIC (PV) SYSTEM AT THE MINTZ RESIDENCE, LOCATED AT 571 KENTUCKY DERBY LN, LILLINGTON, NORTH CAROLINA. THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY GRID THROUGH THE EXISTING ELECTRICAL SERVICE EQUIPMENT. THE PV SYSTEM DOES NOT INCLUDE STORAGE BATTERIES.

SYSTEM RATING

11.2	kW DC STC
10.8	kW AC

EQUIPMENT SUMMARY

- (28) SPR-U-400-BLK-W-DC (WAAREE WSMD-44) PV MODULES
- (28) ENPHASE IQ7HS-66-M-US [240V] PV INVERTERS
- (215) (20 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

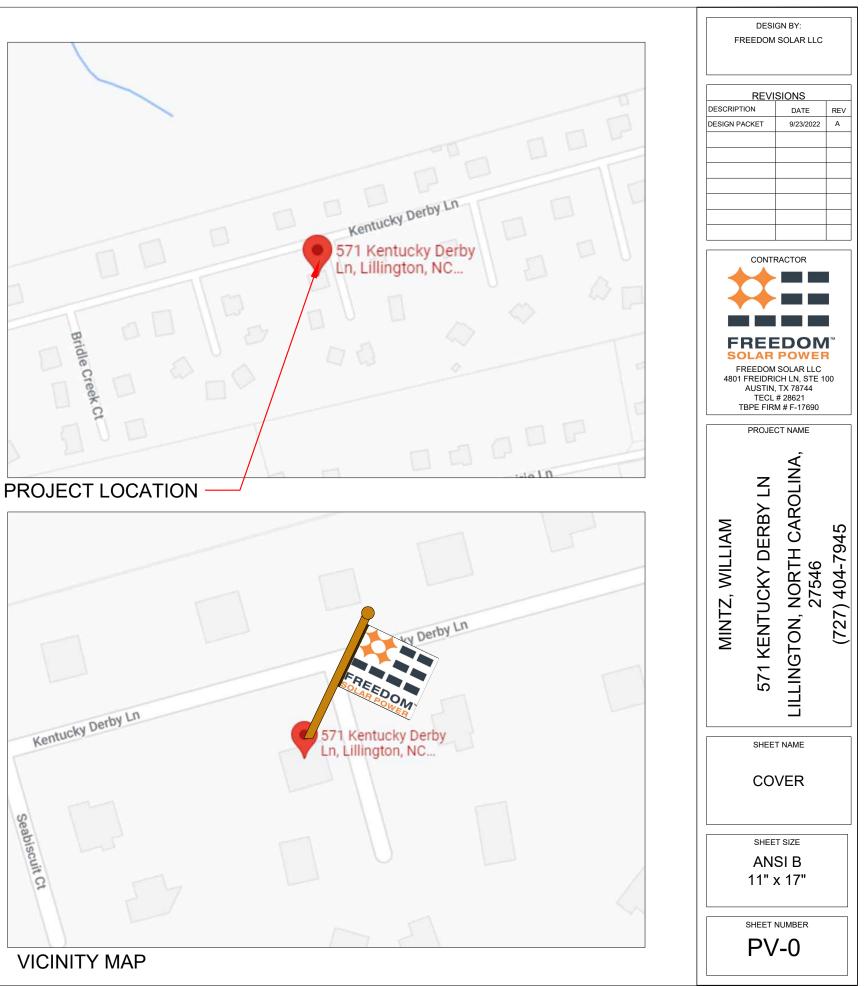
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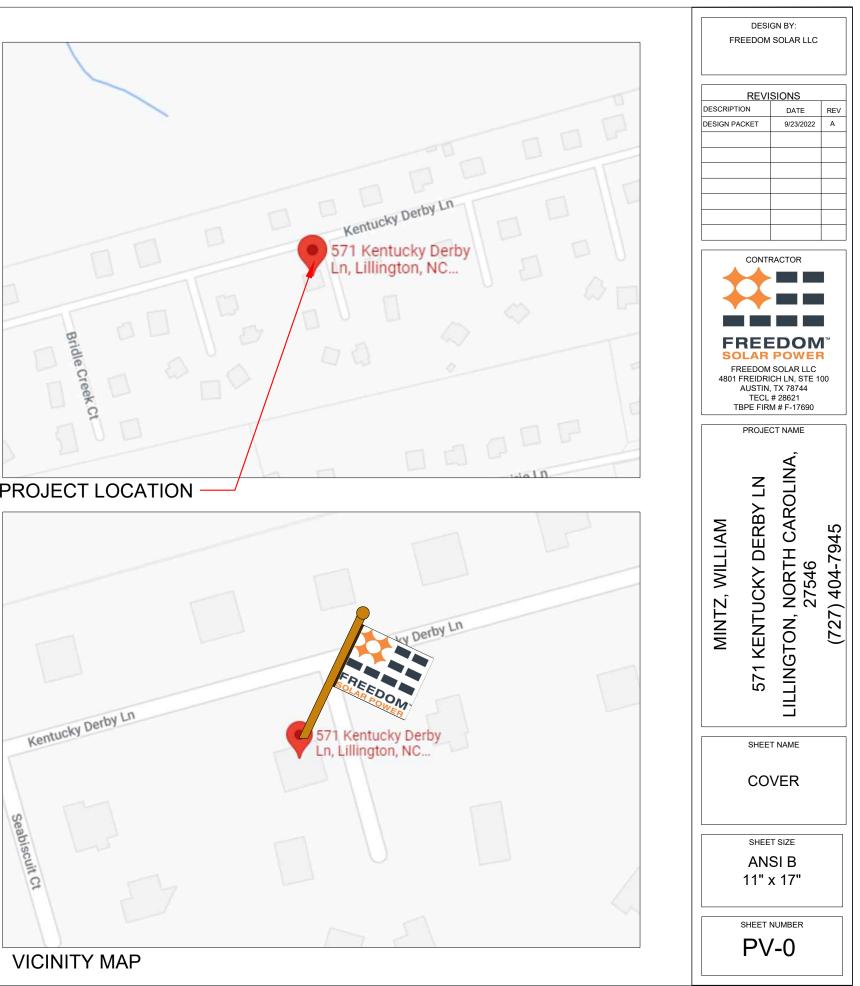
2020 NATIONAL ELECTRICAL CODE WITH STATE AMENDMENTS 2018 NORTH CAROLINA STATE BUILDING CODE UNDERWRITERS LABORATORIES (UL) STANDARDS OSHA 29 CFR 1910.269

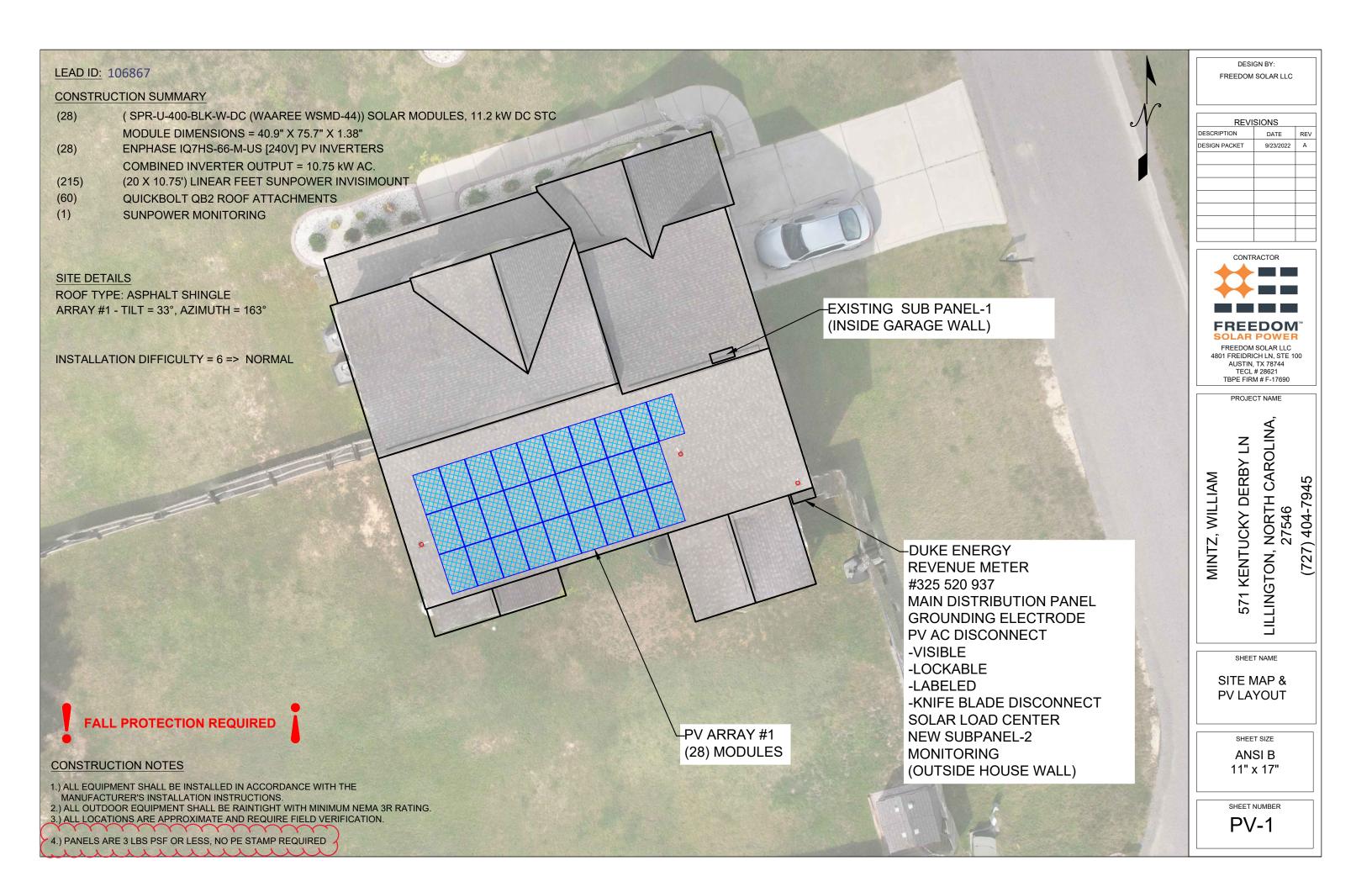
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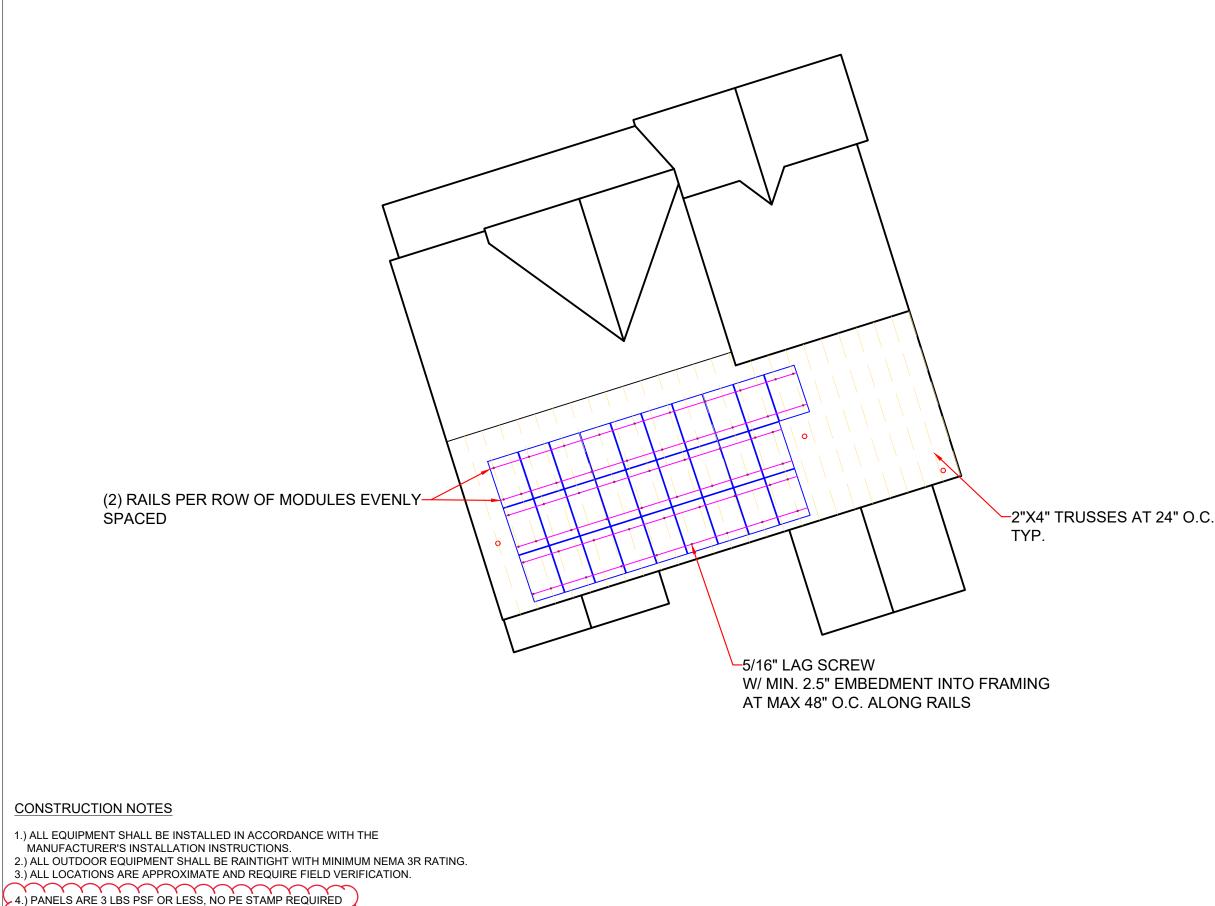
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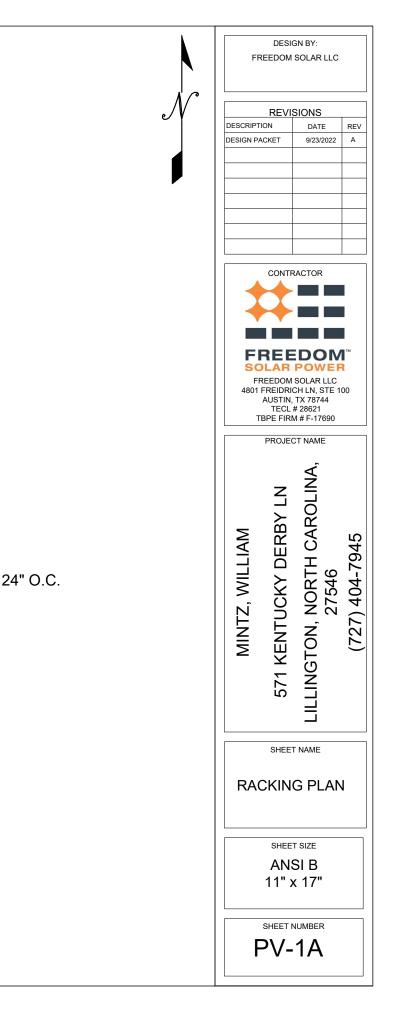






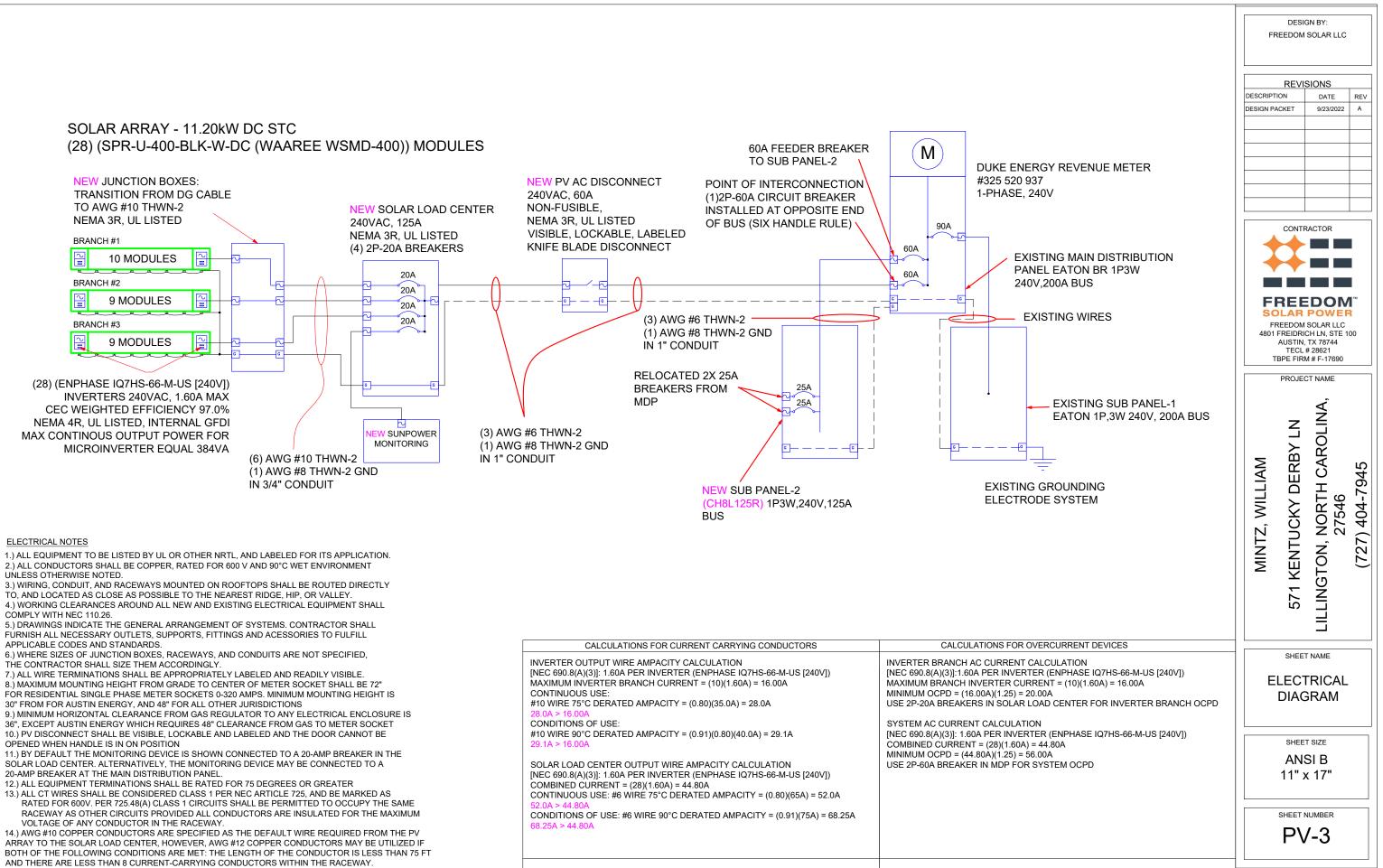


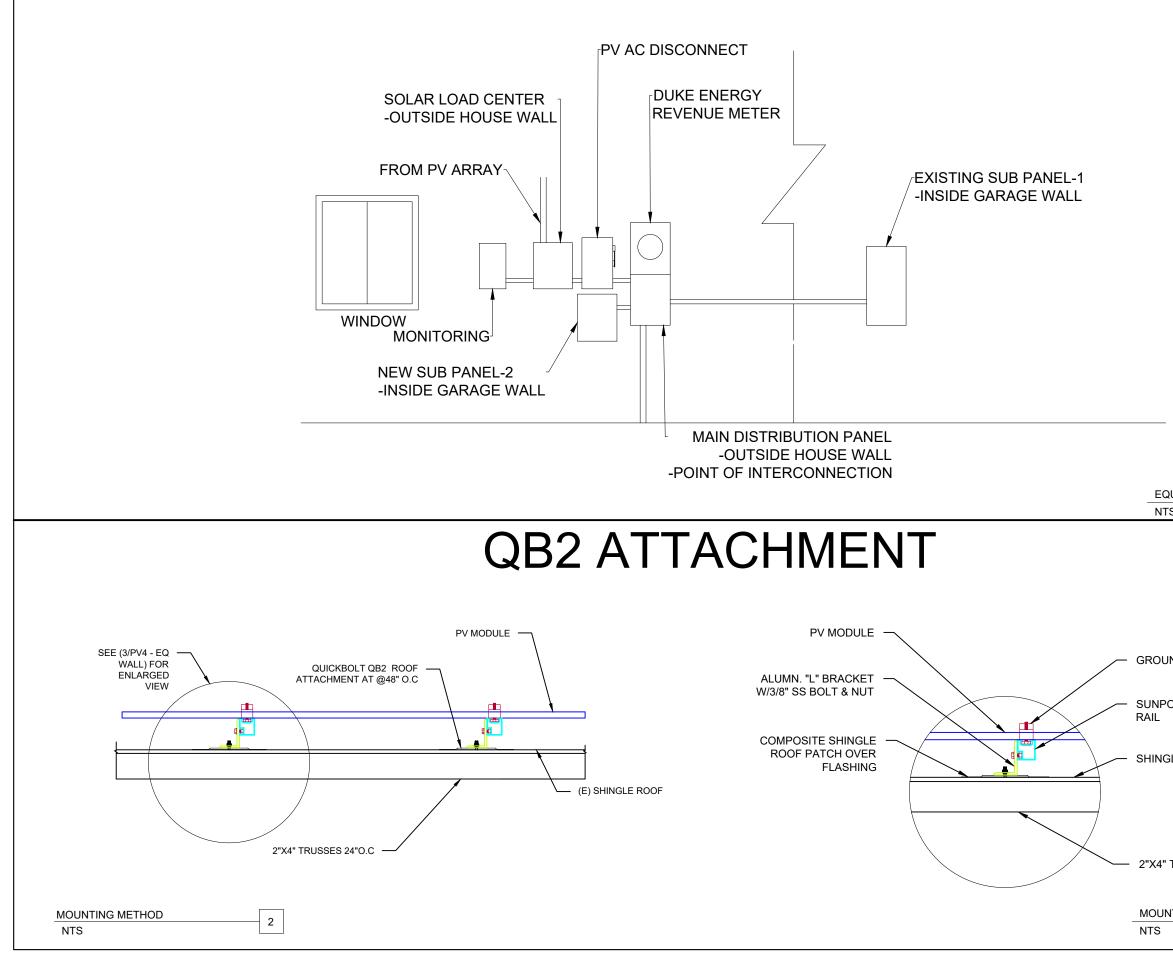
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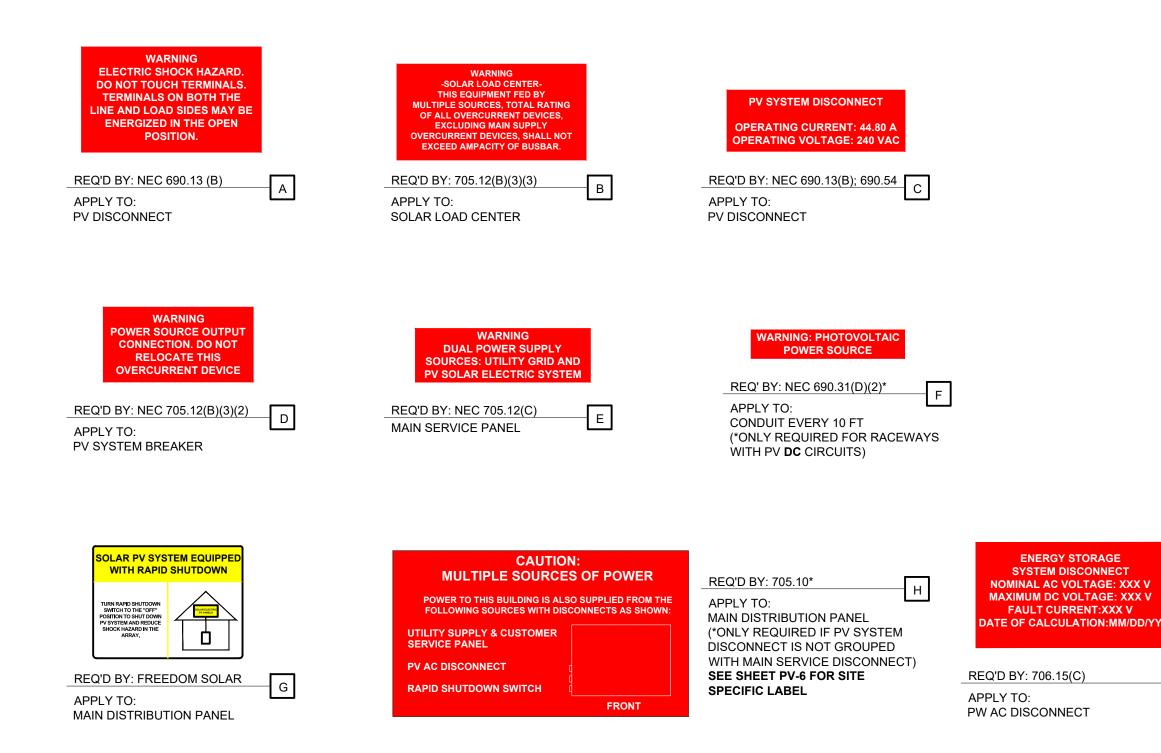
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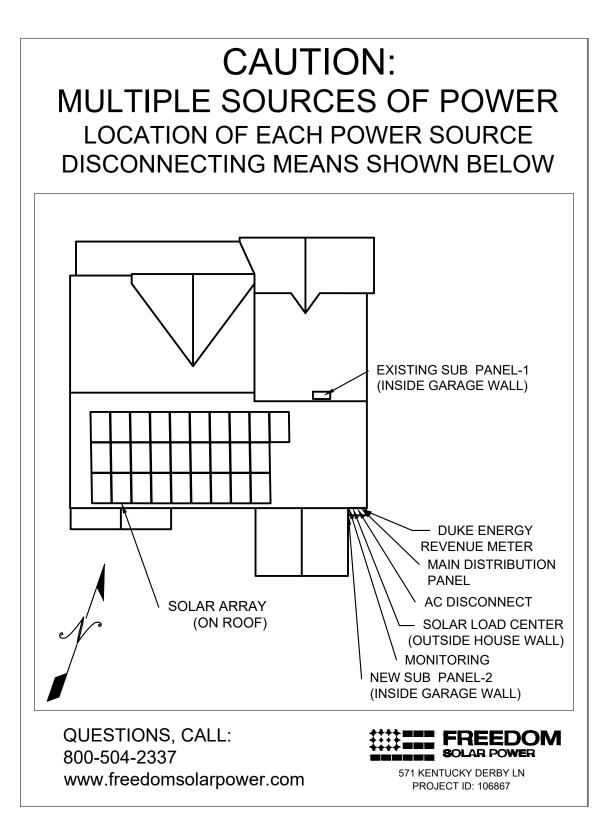
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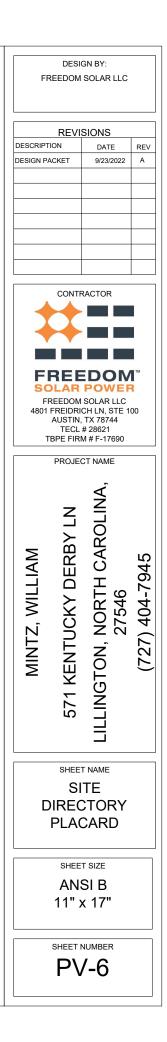
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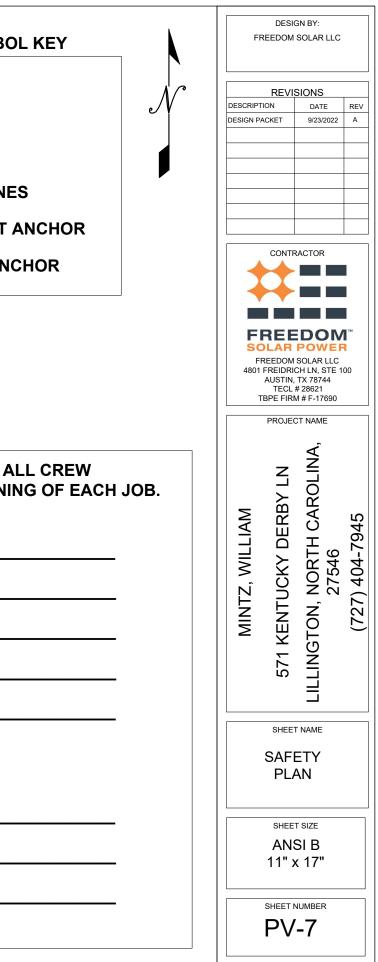
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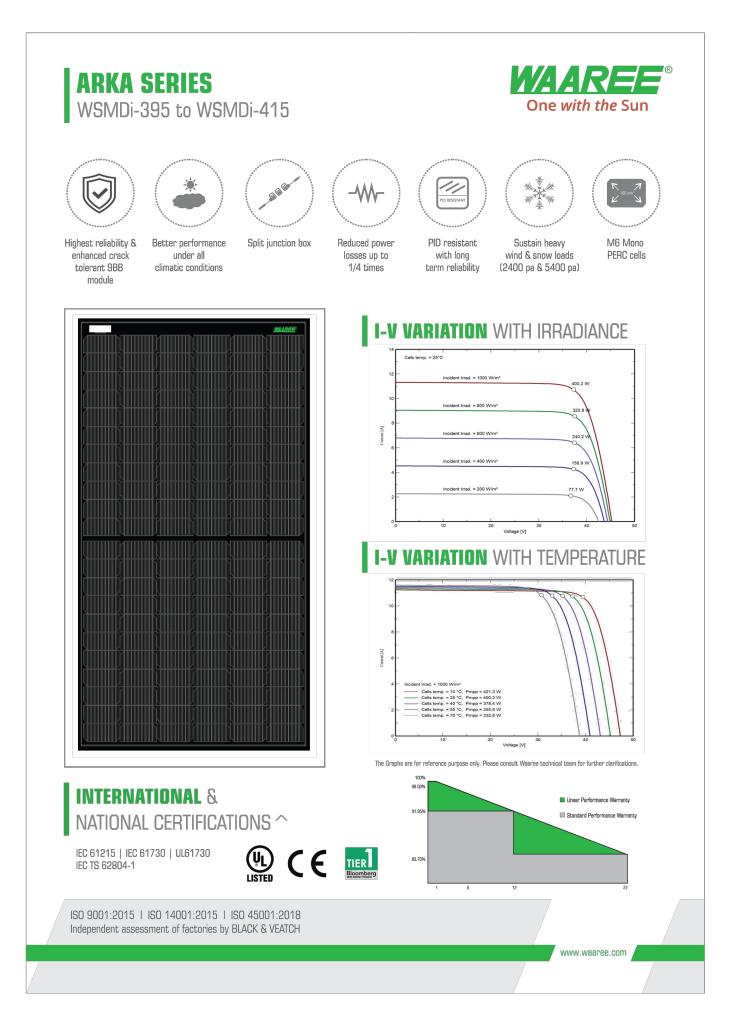






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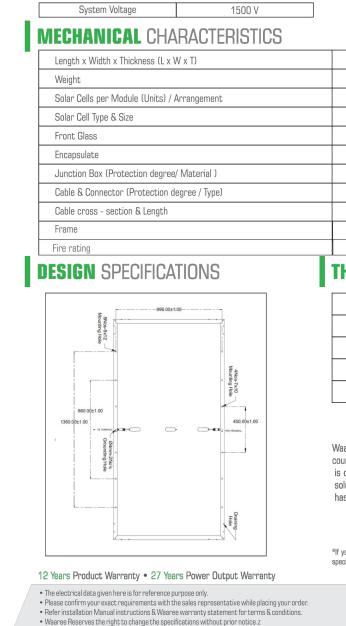
ARKA SERIES

WSMDi-395 to WSMDi-415

ELECTRICAL CHARACTERISTICS

Models	Pmax	(W)	Vmp	(V)	Imp	(A)	lsc	(A)	Voc	(V)	Module Eff. (%)
IVIUUEIS	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
WSMD-395	395	296.8	37.77	34.70	10.47	8.55	11.24	9.08	45.00	42.10	19.78
WSMD-400	400	300.6	38.00	34.90	10.54	8.62	11.32	9.14	45.22	42.30	20.03
WSMD-405	405	304.4	38.22	35.10	10.61	8.68	11.40	9.21	45.44	42.50	20.28
WSMD-410	410	308.2	38.44	35.30	10.68	8.74	11.48	9.27	45.66	42.70	20.53
WSMD-415	415	312.1	38.66	35.40	10.75	8.81	11.57	9.34	45.88	42.90	20.78

*Standard Test Conditions (STC) - 1000 W/m2 irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m2 irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m2 as per IEC 60904-1. Measuring Uncertainty ± 3%.



WEL/E&PD/395-415/132/MP/HC/CMZ/01/27.07.2022



Series Fuse Rating	22 A

1924 mm (L) x 1038 mm (W) x 35 mm (T)
22 kgs
132 cells / (11x6 11x6)
Mono PERC, 83 x 166 mm
3.2 mm Low Iron and Tempered glass with ARC coating
PID Free & UV Resistant
IP68 / Weatherproof PPO
IP68 rated / Staubli MC4 Connector
4 mm ² & 1200mm
Anodized Aluminium Alloy, Anodization thickness $\geq\!15$ micron
Type 2

Type 2

THERMAL CHARACTERISTICS

Temperature coefficient of Current (lsc), α (%/°C)	0.055
Temperature coefficient of Voltage (Voc), ß (%/°C)	-0.285
Temperature coefficient of Power (Pm), γ (%/°C)	-0.365
NOCT (°C)	43 ± 2
Operating temperature range (°C)	-40 to 85

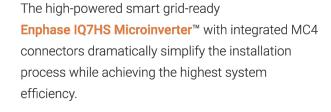
Waaree Energies Ltd. is amongst the top Solar Energy Companies and has the country's largest Solar PV Module manufacturing capacity of 5 GW. In addition, it is committed to provide top notch EPC services, project development, rooftop solutions, solar water pumps and also in an Independent Power Producer. Waaree has its presence in over 325 + locations nationally and 68 countries globally.

*If you need specific product certificates, and if module installations are to deviate from our guidance specified in our installation manual, please contact your local Waaree sales and technical representatives.

www.waaree.com

Data Sheet Enphase Microinverters Region: AMERICAS

Enphase IQ7HS Microinverter



The IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.

Easy to Install

- Lightweight and simple
- · Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Efficient and Reliable

- Optimized for high powered 66-cell* modules
- Highest CEC efficiency of 97.0%
- · More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ7HS is required to support 66-cell modules.



Enphase IQ7HS Microinverter

	107110 66 14 110		
INPUT DATA (DC)	IQ7HS-66-M-US		
Commonly used module pairings ¹	320 W - 460 W +		
Module compatibility	66-cell PV modules		
Maximum input DC voltage	59 V		
Peak power tracking voltage	38 V - 43 V		
Operating range	20 V - 59 V		
Min/Max start voltage	30 V / 59 V		
Max DC short circuit current (module lsc)	15 A		
Overvoltage class DC port	II		
DC port backfeed current	0 A		
PV array configuration	1 x 1 ungrounded array; No additional AC side protection requires max 20A		
OUTPUT DATA (AC)	@240 VAC	@208 VAC	
Peak output power	384 VA	369 VA	
Maximum continuous output power	384 VA	369 VA	
Nominal (L-L) voltage/range ²	240 V / 211-264 V	208 V / 183-229 V	
Maximum continuous output current	1.60 A (240V)	1.77 A (208V)	
Nominal frequency	60 Hz	60 Hz	
Extended frequency range	47 to 68 Hz	47 to 68 Hz	
AC short circuit fault current over 3 cycles	4.82 A	4.82 A	
Maximum units per 20 A (L-L) branch circuit ³	10	9	
Overvoltage class AC port	III		
AC port backfeed current	18 mA	18 mA	
Power factor setting	1.0	1.0	
Power factor (adjustable)	0.85 leading0.85 lagging	0.85 leading0.85 lagging	
EFFICIENCY	@240 V	@208 V	
CEC weighted efficiency	97.0 %	96.5 %	
MECHANICAL DATA			
Ambient temperature range	-40°C to +60°C		
Relative humidity range	4% to 100% (condensing)		
Connector type	Staubli made MC4		
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (withou	t bracket)	
Weight	1.08 kg (2.38 lbs)		
Cooling	Natural convection - No fans		
Approved for wet locations	Yes		
Pollution degree	PD3		
Enclosure	Class II, corrosion resistant polymeric	cenclosure	
Environmental category / UV exposure rating	NEMA type 6 / outdoor		
Altitude	2000m		
FEATURES	200011		
Communication	Power Line Communication (PLC)		
	Power Line Communication (PLC)		
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect means required by NEC 690 and C22.1-2018 Rule 64-220.		
Compliance	CA Rule 21 (UL 1741-SA), HECO v1.1 UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 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.		

No enforced DC/AC ratio. See the compatibility calculator at <u>https://enphase.com/en-us/support/module-compatibility</u>.
 Nominal voltage range can be extended beyond nominal if required by the utility.
 Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit enphase.com

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To learn more about Enphase offerings, visit enphase.com





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:

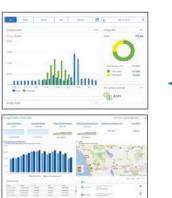
- Hardwired Ethernet
- Wi-Fi
- Cellular backup



SunPower[®]EnergyLink[™] | **Residential and Commercial PVS6**

SunPower Monitoring Websites

PVS6





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 a ccessible router or switch			
Power	 100–240 VAC (L–N), 50 or 60 Hz 208 VAC (L–L in 3-phase), 60 Hz 			

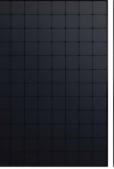
Mechanical		
Weight	5.5 lbs (2.5 kg)	
Dimensions	11.8 × 8.0 × 4.2 in. (30.5 × 20.5 × 10.8 cm)	
Enclosure rating	UL50E Type 3R	

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

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SUNPOWER[®]

SunPower AC Modules





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

Communication		
RS-485	Inverters and meters	
Integrated Metering	One channel of revenue-grade production meteringTwo 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	

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



SUNPOWER[®]



530536 RevC



SunPower[®] InvisiMount[™] | **Residential Mounting System**



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, railmounted 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.com



SUNPOWER[®]

Datasheet









Mid Clamp



Row-to-Row Grounding Clip

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 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 Equinox¹⁰, invisiMount¹⁰, 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.
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All other trademarks are the property of their respective owners. Specifications included in this datasheet are subject to change without notice.

Datasheet

nt Components





End Clamp



Rail and Rail Splice

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.



pe.eaton.com

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

pe.eaton.com





pe.eaton.com

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

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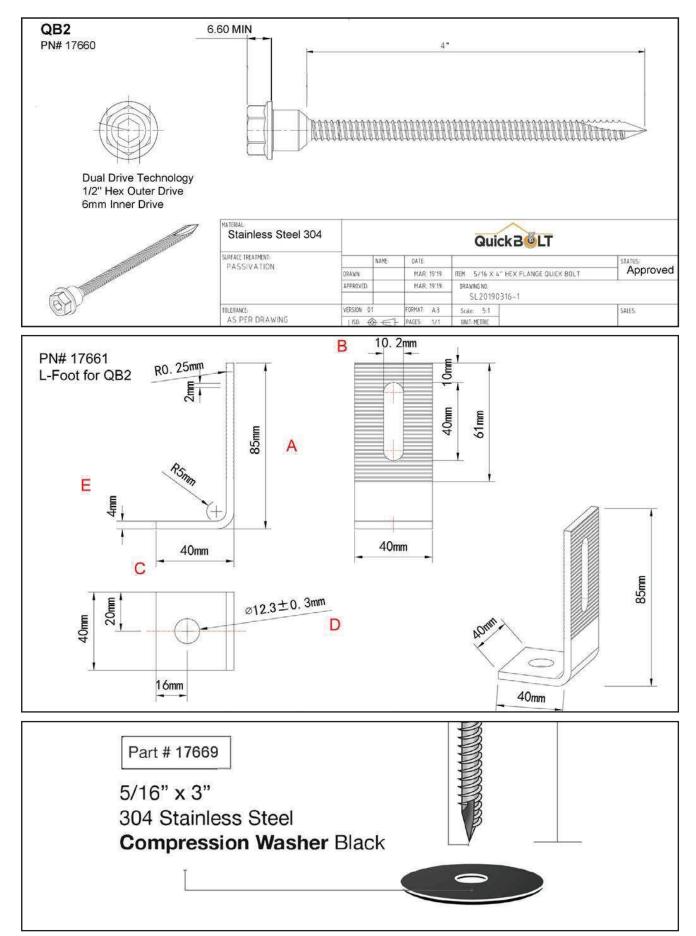


SPEC SHEET

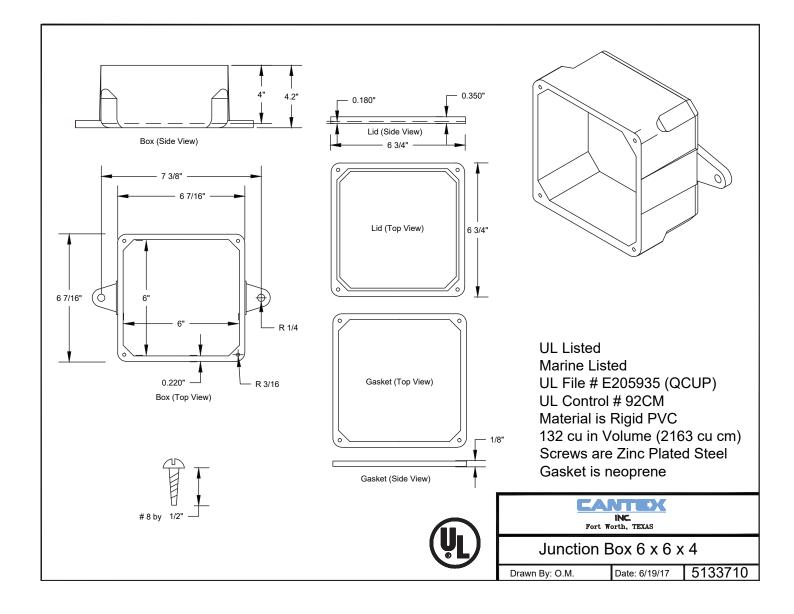
Part #	Box Quantity	
17660	4″ QB2 (25)	
17662	3″ Microflashing® (25); 4″ QB2 (25); L-Foot (25)	







5830 Las Positas Road, Livermore CA 94551 | 3948 Airway Drive, Rock Hill SC 29732 Phone: (844) 671-6045 | Fax: (800) 689-7975 | www.quickbolt.com QuickBOLT is a division of Quickscrews International Corp.



2.0 Listings, Compatibility, and Classification

The SunPower InvisiMount Residential Mounting System is UL 2703 Listed. The InvisiMount Listing **includes** the following SunPower InvisiMount-compatible modules, **which are the only modules that are compatible with the InvisMount system:**

DC Modules	AC Modules	
 SPR-X22-370 SPR-X22-360 SPR-X21-350-BLK SPR-X21-335-BLK SPR-X21-345 SPR-E20-327 SPR-E19-320 	 SPR-X22-370-E-AC SPR-X22-360-E-AC SPR-X21-350-BLK-E-AC SPR-X21-335-BLK-E-AC SPR-X20-327-BLK-E-AC SPR-X21-345-E-AC SPR-X21-335-E-AC SPR-X20-327-E-AC SPR-E20-327-E-AC SPR-E19-320-E-AC 	 SPR-A425-G-AC SPR-A420-G-AC SPR-A415-G-AC SPR-A400-G-AC SPR-A390-G-AC

Grounding from the module to the rail is accomplished through both the mid clamp and end clamp. The Listing also includes the following components, which have been evaluated for both mounting and bonding in accordance with UL 2703:

- end clamp
- mid clamp
- rail
- splice and splice screw
- ground lug assembly
- L-foot
- row-to-row (R2R) grounding clip
- row-to-row (R2R) spacer

