

SYSTEM INFORMATION	
MODULE	HANWHA Q-PEAK DUO BLK ML-G10+ 410
INVERTER	ENPHASE IQ7PLUS-72-2-US
RACKING	S-5 CORRUBRACKET W/UNIRAC HORIZON 2-RAIL RACKING SYSTEM
SYSTEM SIZE (DC)	9.84 KW
LOCATION	30.1938294, -82.7018288

GENERAL NOTES:

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE ASCE 7-22, 8TH EDITION 2023 FLORIDA RESIDENTIAL CODE, 8TH EDITION 2023 FLORIDA BUILDING CODE, 8TH EDITION 2023 FLORIDA FIRE PREVENTION CODE, NEC 2020 AND ALL LOCAL CODES & ORDINANCES.

ROOF SHALL HAVE NO MORE THAN TWO LAYERS OF COVERING IN ADDITION TO THE SOLAR EQUIPMENT.

INSTALLATION OF SOLAR EQUIPMENT SHALL BE FLUSH MOUNTED, PARALLEL TO AND NO MORE THAN 6-INCHES ABOVE THE SURFACE OF THE ROOF.

ANY PLUMBING VENTS ARE NOT TO BE CUT OR COVERED FOR SOLAR EQUIPMENT INSTALLATION. ANY RELOCATION OR MODIFICATION OF THE VENT REQUIRES A PLUMBING PERMIT AND INSPECTION.

ALL DESIGN, CALCULATIONS ARE PERFORMED BY MICHAEL S. REZK, P.E. PROFESSIONAL ENGINEER, WITH LICENCE No. 95844.

INVERTER PLACEMENT:

SYSTEM UTILIZES "ENPHASE" MICRO-INVERTERS WITH RAPID SHUTDOWN CONTROL LOCATED ON THE BACK SIDE OF EACH MODULE.

STRUCTURAL STATEMENT:

THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE NEW LOADS IMPOSED BY THE PHOTOVOLTAIC MODULE SYSTEM INCLUDING UPLIFT & SHEAR-EXISTING RAFTER SIZES & DIMENSIONS CONFORM TO 8TH EDITION 2023 FLORIDA RESIDENTIAL CODE MOUNTING BRACKETS AND HARDWARE MEET OR EXCEED FLORIDA CODE REQUIREMENTS FOR THE DESIGN CRITERIA OF THE TOWN.

FSEC CERTIFICATION STATEMENT:

PER FL. STATUTE 377.705, I, MINA A. MAKAR PE# 86753, CERTIFICATE OF AUTHORIZATION # 33404, AN ENGINEER LICENSED PURSUANT TO CHAPTER 471, CERTIFY THAT THE PV ELECTRICAL SYSTEM AND ELECTRICAL COMPONENTS ARE DESIGNED AND APPROVED USING THE STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE. FBC 2023

CLIMATIC & GEOGRAPHIC DESIGN CRITERIA TABLE R301.2(1)	
SPEED (MPH)	120
TOPOGRAPHIC EFFECTS	B
SPECIAL WIND REGION	NO
WIND BORNE DEBRIS ZONE	2
SEISMIC DESIGN CATEGORY	C
CLIMATE ZONE	2A
WIND EXPOSURE CATETORY	B

FBC, RESIDENTIAL 2023

TABLE R301.2.1.3 WIND SPEED CONVERSIONS ^a											
V _{ult}	110	115	120	130	140	150	160	170	180	190	200
V _{asf}	85	89	93	101	108	116	124	132	139	147	155

For SI: 1 mile per hour = 0.447 m/s.
a. Linear interpolation is permitted.

HANWHA Q-PEAK DUO BLK ML-G10+ 410
410 WATT MODULE
74" X 41.1" X 1.26"
(SEE DATASHEET)

PLAN KEY	
PV-1	COVER PAGE
PV-1.1	ATTACHMENT DETAIL
PV-1.1.(2)	ATTACHMENT DETAIL
PV-1.2	INVERTER SPECS
PV-1.3	COMBINER SPECS
PV-1.4	PANEL SPECS
PV-2	PANEL LAYOUT
PV-3	ELETRICAL
PV-3.1	ELECTRICAL CONT.
PV-3.2	EQUIPMENT LABELS

BILL OF MATERIALS	
MODULES	24
INVERTERS	24
L-FOOT ATTACHMENT W/ S-5 CORRUBRACKET	50
171" RAILS	11
ENPHASE COMBINER BOX	1
EATON 60A FUSIBLE AC DISCONNECT	1
40A FUSES	2
40A BACKFEED BREAKER	1

PROJECT INFORMATION	
INITIAL	DATE: 9/5/2024
REV:	DATE:
REV:	DATE:

DESIGNER: AXL
DESIGNER:
DESIGNER:

COVER PAGE

PV-1



momentum
SOLAR

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CUSTOMER INFORMATION
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LAKE CITY, FL 32055
(386) 288-8884

PV SYSTEM INFORMATION
SYSTEM SIZE (DC): 9.84 KW
24 MODULES: HANWHA Q-PEAK DUO BLK ML-G10+ 410
24 INVERTERS: ENPHASE IQ7PLUS-72-2-US



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PROJECT INFORMATION

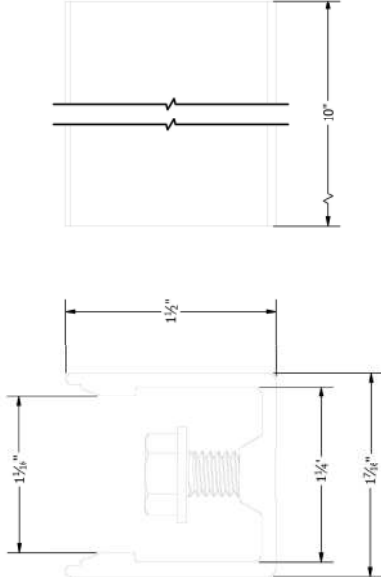
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REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ATTACHMENT DETAIL

PV-1.1

PART # TABLE		
P/N	DESCRIPTION	LENGTH
RLSPLCM1	NXT HORIZON RAIL SPLICE	10"

4X - 5/16"-13 x 5/8"
HEX FLANGE SCREW - TYPE F



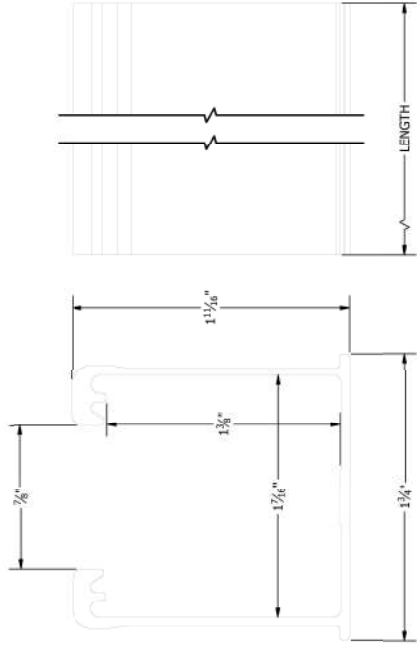
PRODUCT LINE: NXT HORIZON
DRAWING TYPE: PART DETAIL
DESCRIPTION: RAIL SPLICE
REVISION DATE: 9/22/2021

DRAWING NOT TO SCALE
ALL DIMENSIONS ARE
NOMINAL
PRODUCT PROTECTED BY
ONE OR MORE US PATENTS
LEGAL NOTICE

NH-P02

SHEET

PART # TABLE		
P/N	DESCRIPTION	LENGTH
084RLM1	NXT HORIZON RAIL 84" MILL	84"
084RLD1	NXT HORIZON RAIL 84" DARK	84"
168RLM1	NXT HORIZON RAIL 168" MILL	168"
168RLD1	NXT HORIZON RAIL 168" DARK	168"
208RLM1	NXT HORIZON RAIL 208" MILL	208"
208RLD1	NXT HORIZON RAIL 208" DARK	208"
246RLM1	NXT HORIZON RAIL 246" MILL	246"
246RLD1	NXT HORIZON RAIL 246" DARK	246"



PRODUCT LINE: NXT HORIZON
DRAWING TYPE: PART DETAIL
DESCRIPTION: RAIL
REVISION DATE: 9/13/2021

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NH-P01

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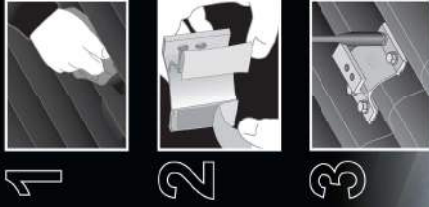
The right way to attach almost anything to metal roofs!

CorruBracket™

CorruBracket™ can be used to mount almost anything to corrugated metal roofing and is compatible with 7/8" and 3/4" corrugated roofing. No messy sealants to apply! No chance for leaks! The CorruBracket comes with factory-applied butyl sealant already in the base, and the S-51® patented reservoir conceals the sealant, preventing UV degradation.

Installation is simple. CorruBracket is mounted directly into the supporting structure of the roof (i.e. roof decking, wood or steel purlins, or trusses). No surface preparation is necessary; simply wipe away excess oils and debris, peel the release paper, align, and apply. Secure through the pre-punched holes using the appropriate screws for the supporting structure.

CorruBracket is so strong, it will even support heavy-duty applications like snow retention. For corrugated profiles, the CorruBracket is the perfect match for our ColorGard® snow retention system. CorruBracket is economical and facilitates quick and easy installation.



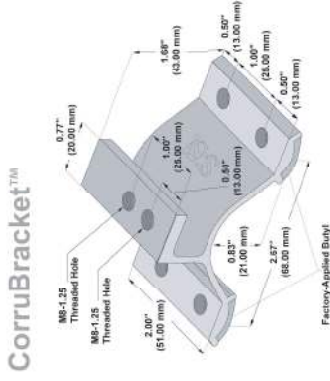
888-825-3432 | www.S-5.com

S-51® CorruBracket™ is the right way to attach almost anything to 7/8" and 3/4" corrugated roofing, including PV via DirectAttached™ or rail methods.



Each **CorruBracket™** comes with factory applied butyl sealant in the base. CorruBracket is compatible with most common metal roofing materials. For design assistance, ask your distributor, or use our web-based calculator at www.S-5.com for job-specific, system engineering and design of your next snow retention project. Also, please visit our website for more information including CAD details, metallurgical compatibilities and specifications.

The CorruBracket has been tested for load-to-failure results on wood decking, and metal and wood purlins. The independent lab test data found at www.S-5.com can be used for load-critical designs and applications. S-5® holding strength is unmatched in the industry.



Please note: All measurements are rounded to the second decimal place. Contact your distributor for information about hardware requirements.

Example Applications



S-31® Warning! Please use this product responsibly!

Products are protected by multiple U.S. and foreign patents. For published data regarding holding strength, bolt torque, patents and trademarks visit the S-31 website at www.s-31.com.

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PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 9.84 KW
24 MODULES: HANWHA Q,PEAK DUO BLK
ML-G10+ 410
24 INVERTERS: ENPHASE
IQ7PLUS-72-2-US

PROJECT INFORMATION

INITIAL	DATE: 6/5/2024	DESIGNER: AKL
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ATTACHMENT DETAIL

PV-1.1 (2)

ATTACHMENT DETAIL FOR CORRUGATED METAL ROOF

Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and Q 7+ Microinverters integrate with the Enphase Q Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software. Q 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 wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high-powered 60-cell/120 half-cell and 72-cell/144 half-cell modules
- 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 IQ 7+ Micro is required to support 72-cell/144 half-cell modules.



To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)		IQ7-60-2-US	IQ7PLUS-72-2-US
Commonly used module pairings ¹		235W • 350 W + 60-cell/120 half-cell PV modules only	235 W • 480 W + 60-cell/120 half-cell and 72-cell/144half-cell PV modules
Module compatibility			
Maximum input DC voltage		48 V	60 V
Peak power tracking voltage		27 V - 37 V	27 V - 45 V
Operating range		16 V - 48 V	16 V - 60 V
Min/Max start voltage		22 V / 48 V	22 V / 64 V
Max DC short-circuit current (module Isc)		15 A	15 A
Overvoltage class DC port		II	II
DC port backfeed current		0 A	0 A
PV array configuration		1 x 1 ungrounded array. No additional DC side protection required; AC side protection requires max 20A per branch circuit.	
OUTPUT DATA (AC)		IQ 7 Microinverter	IQ 7+ Microinverter
Peak output power		350 VA	295 VA
Maximum continuous output power		240 VA	200 VA
Nominal (L-L) voltage/range ²		240 V / 211-264 V	240 V / 211-264 V
Maximum continuous output current		1.0 A (240 V)	1.5 A (208 V)
Nominal frequency		60 Hz	60 Hz
Extended frequency range		47 - 48 Hz	47 - 68 Hz
AC short-circuit fault current over 3 cycles		5.8 Arms	5.8 Arms
Maximum units per 20 A (L-L) branch circuit ³		16 (240 VAC)	13 (240 VAC)
Overvoltage class AC port		III	III
AC port backfeed current		18 mA	18 mA
Power factor setting		1.0	1.0
Power factor (adjustable)		0.85 leading... 0.85 lagging	0.85 leading... 0.85 lagging
EFFICIENCY		@240 V	@208 V
Peak efficiency		97.6 %	97.6 %
CEC weighted efficiency		97.0 %	97.0 %
MECHANICAL DATA			
Ambient temperature range		-40°C to +55°C	
Relative humidity range		4% to 100% (condensing)	
Connector type		MC4 (or Amphenol H4 UT3 with additional Q-DCC-5 adapter)	
Dimensions (HxWxD)		212 mm x 175 mm x 30.2 mm (without bracket)	
Weight		1.08 kg (2.38 lbs)	
Cooling		Neutral convection - No fans	
Approved for wet locations		Yes	
Pollution degree		P03	
Enclosure		Class II double-insulated, corrosion resistant polymeric enclosure	
Environmental category / UV exposure rating		NEMA Type 6 / outdoor	
FEATURES			
Communication		Power Line Communication (PLC)	
Monitoring		Enlighten Manager and MEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy.	
Disconnecting means		The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.	
Compliance		CA Rule 21 (UL 1741-SAC) UL 6109-1, 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 Shutdown Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 requirements for PV systems. This product is also UL Listed as a disconnecting means for AC and DC conductors when installed according to manufacturer's instructions.	

1. No enforced DC/AC ratio. See the compatibility calculator at <https://enphase.com/en-us/support/module-compatibility>.

2. Nominal voltage range can be extended beyond nominal if required by the utility.

3. 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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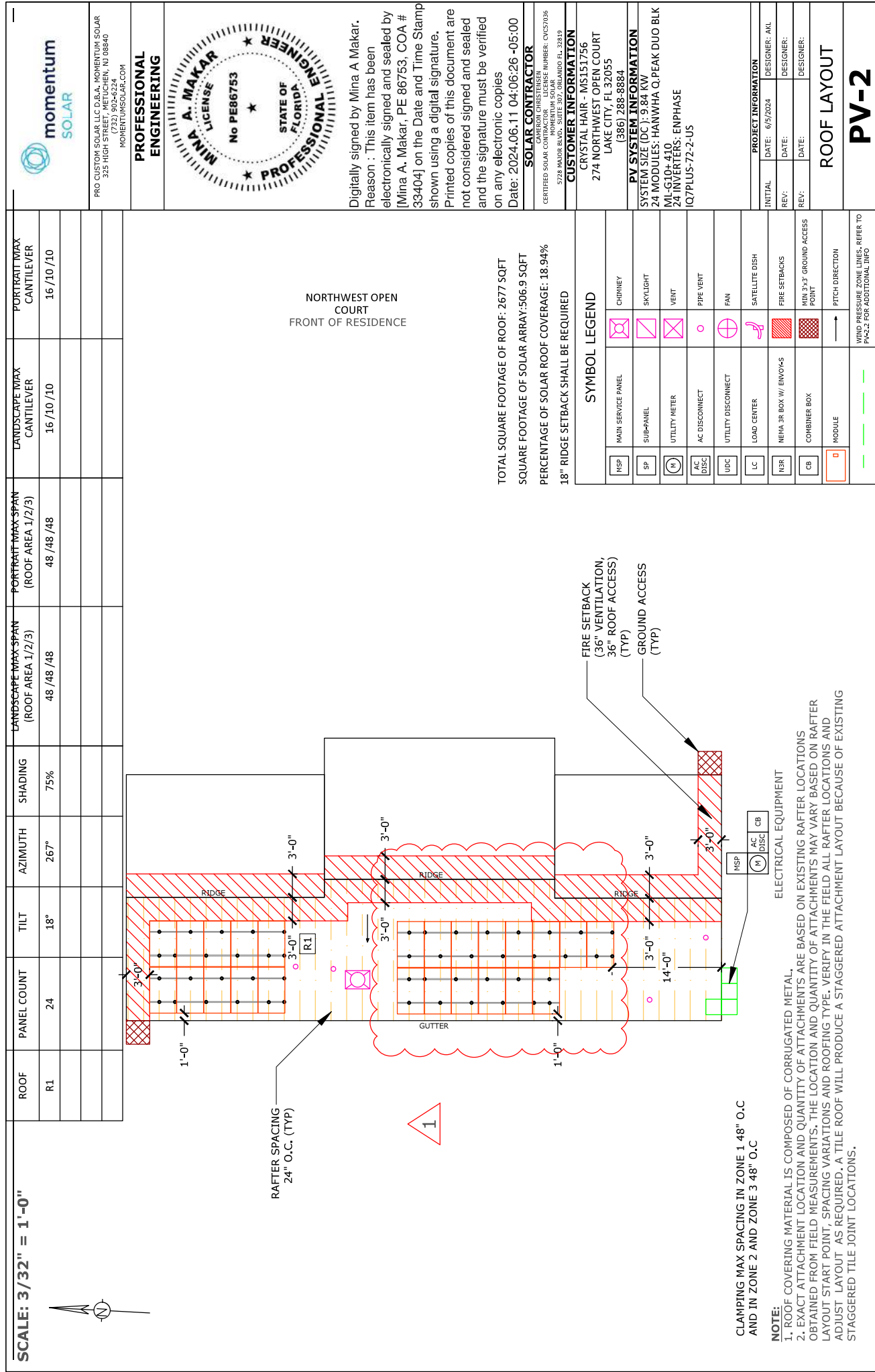
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SYSTEM SIZE (DC): 9.84 KW
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ML-G10+ 410
24 INVERTERS: ENPHASE
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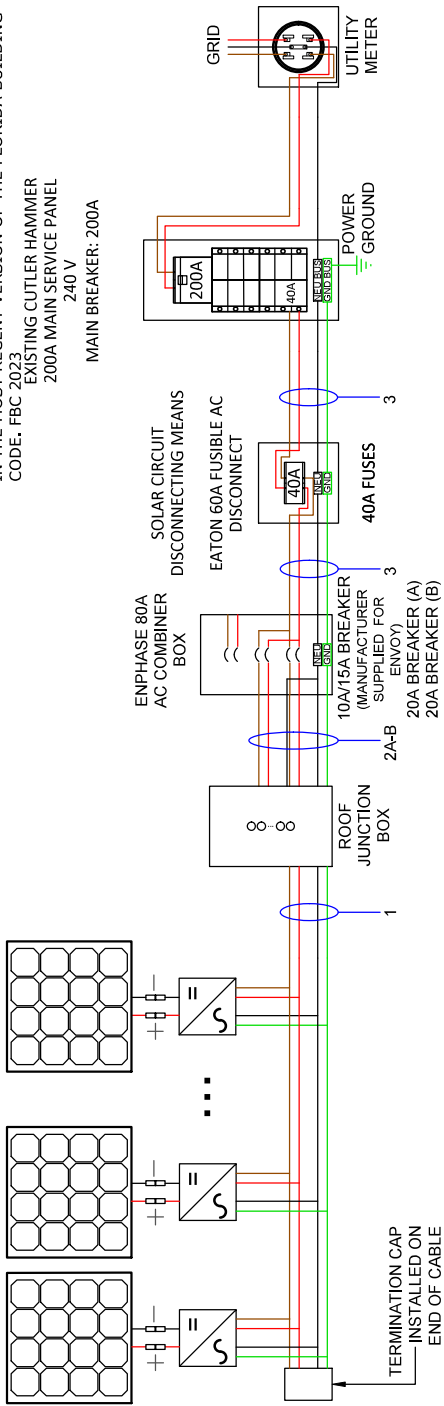
PROJECT INFORMATION

INITIAL: DATE: 9/5/2024 DESIGNER: AML
REV: DATE: DESIGNER:
REV: DATE: DESIGNER:

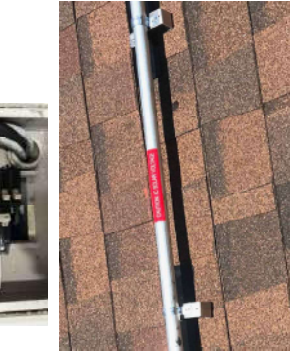
INVERTER DETAIL

PV-1.2



PV MODULE RATINGS				INVERTER RATINGS				VOLTAGE DROP CALCULATIONS									
MODULE MAKE		HANWHA		INVERTER MAKE		ENPHASE		WIRE RUN		V _{mp}	I _{mp}	R	L (FT)	V _o	% V _o	WIRE SIZE	
MODEL		HANWHA Q.PEAK DUO BLK ML-G10+ 410		MODEL		IQ7PLUS-72-2-US		BRANCH TO J-BOX		240.00	14.52	1.98	79.00	4.542	1.89%	12 AWG	
MAX POWER		410W		MAX OUTPUT POWER		290W		J-BOX TO LOAD CENTER		240.00	29.04	1.24	50.00	3.601	1.50%	10 AWG	
OPEN CIRCUIT VOLTAGE		45.37V		OPEN DC VOLTAGE		60V		LOAD CENTER TO AC DISCONNECT		240.00	36.3	0.778	3.00	0.169	0.07%	08 AWG	
MPP VOLTAGE		37.64V		NOMINAL AC VOLTAGE		240V		AC DISCONNECT TO INTERCONNECTION		240.00	36.3	0.778	10.00	0.565	0.24%	08 AWG	
SHORT CIRCUIT CURRENT		11.2A		MAX AC CURRENT		1.21A											
MPP CURRENT		10.89A		CEC INVERTER EFFICIENCY		97%											
NUMBER OF MODULES		24		NUMBER OF INVERTERS		24											
UL1703 COMPLIANT		YES				UL1703 COMPLIANT											
SUB PANEL BREAKER SIZE		# OF MODULES	PV BREAKER PER BRANCH	THIS SOLAR PHOTOVOLTAIC SYSTEM COMPLIES WITH THE 2023 FLORIDA BUILDING CODE AND THE 2020 NATIONAL ELECTRICAL CODE													
		UP TO 16	20A														
				24 HANWHA Q.PEAK DUO BLK ML-G10+ 410W MODULES PAIRED WITH 24 ENPHASE IQ7PLUS-72-2-US MICRO-INVERTERS													
				BRANCH CIRCUIT A 12 MICRO-INVERTERS BRANCH CIRCUIT B 12 MICRO-INVERTERS 													
				NEC 705.12(B)(2)(3)(b) 120% RULE (1.25 x INVERTER OUTPUT) + MAIN OCPD ≤ BUS RATING x 1.20 (1.25 x 29.04) + 200 ≤ 200 x 1.20													
				FSEC CERTIFICATION STATEMENT: PER FL. STATUTE 377.705, I, MINA A. MAKAR PE# 86753, CERTIFICATE OF AUTHORIZATION #33404, AN ENGINEER LICENSED PURSUANT TO CHAPTER 471, CERTIFY THAT THE PV ELECTRICAL SYSTEM AND ELECTRICAL COMPONENTS ARE DESIGNED AND APPROVED USING THE STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE, FBC 2023. EXISTING CUTLER HAMMER 200A MAIN SERVICE PANEL 240 V MAIN BREAKER: 200A													
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				SOLAR CONTRACTOR CAMERON CHRISTENSEN CERTIFIED SOLAR CONTRACTOR MOMENTUM SOLAR 5728 MADOR BLVD., SUITE 307, ORLANDO FL 32819													
				CUSTOMER INFORMATION CRYSTAL HAIR - M5151756 274 NORTHWEST OPEN COURT LAKE CITY, FL 32055 (386) 288-8884													
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				PROJECT INFORMATION INITIAL: DATE: 6/5/2024 DESIGNER: AML REV: DATE: DESIGNER: REV: DATE: DESIGNER:													
				THREE LINE DIAGRAM													
				PV-3													

NOTE: LETTER "G" IN WIRE QTY TAB STANDS FOR GROUNDING CONDUCTOR.

ALL WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH NEC ARTICLE 110.21(B). LABEL WARNINGS SHALL ADEQUATELY WARN OF THE HAZARD. LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT, AND LABELS REQUIRED SHALL BE SUITABLE FOR THE ENVIRONMENT.					EXAMPLES	
TAG	LABEL		QUANTITY	LOCATION	NOTE	
○	⚠ CAUTION AC SOLAR VOLTAGE		12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'	
○	WARNING: PHOTOVOLTAIC POWER SOURCE		1	COMBINER BOX	1 AT ANY COMBINER BOX	
○	⚠ WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION		1	JUNCTION BOX	1 AT ANY JUNCTION BOX	
○	PHOTOVOLTAIC SYSTEM ⚠ AC DISCONNECT RATED AC OUTPUT CURRENT 29.04 A NOMINAL OPERATING AC VOLTAGE 240 V		1	AC DISCONNECT (RSD SWITCH)	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL	
○	⚠ CAUTION POWER TO THIS SERVICE IS ALSO SUPPLIED FROM ON-SITE SOLAR GENERATION AC SYSTEM DISCONNECT		1	UTILITY METER	1 AT UTILITY METER	
○	⚠ WARNING DUAL POWER SUPPLY SECOND SOURCE IS PHOTOVOLTAIC SYSTEM		1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT	
○	EMERGENCY RESPONDER WITH RAPID SHUTDOWN SWITCH TO THE TOP OF PANEL WITH PHOTOVOLTAIC SYSTEM ⚠ WARNING DUAL POWER SUPPLY SECOND SOURCE IS PHOTOVOLTAIC SYSTEM		1	BACKFEED PANEL		
○	⚠ WARNING POWER SOURCE OUTPUT CONNECTION, DO NOT RELOCATE THIS OVERCURRENT DEVICE NOMINAL OPERATING AC VOLTAGE : 240V NOMINAL OPERATING AC FREQUENCY : 60HZ MAXIMUM AC POWER : VA MAXIMUM AC CURRENT : A MAXIMUM OVERCURRENT DEVICE RATING FOR AC MODULE PROTECTION : 20A		1	AC CURRENT PV MODULES		



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24 MODULES: HANWHA Q.PEAK DUO BLK ML-G10+ 410
24 INVERTERS: ENPHASE IQ7PLUS-72-2-US

PROJECT INFORMATION
INITIAL DATE: 6/5/2024 DESIGNER: AVL
REV: DATE: DESIGNER:
REV: DATE: DESIGNER:

EQUIPMENT LABELS

PV-3.2