SYSTEM INFORMATION					
MODULE	HANWHA Q.PEAK DUO BLK-G10+ 365				
INVERTER	ENPHASE IQ8PLUS-72-2-US				
RACKING	SUNMODO EZ GRIP W/ UNIRAC NXT HORIZON 2-RAIL				
SYSTEM SIZE (DC)	8.03 KW				
LOCATION	30.1828436,-82.6004307				

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

PLAN KEY					
PV-1	COVER PAGE				
PV-1.1	ATTACHMENT DETAIL				
PV-1.1 (2)	ATTACHMENT DETAIL				
PV-2	ROOF LAYOUT				
PV-3	ELECTRICAL				
PV-3.1	ELECTRICAL CONT.				
PV-3.2	EQUIPMENT LABELS				

GENERAL NOTES:

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE ASCE 7-16, 7TH EDITION 2020 FLORIDA RESIDENTIAL CODE, 7TH EDITION 2020 FLORIDA BUILDING CODE, 7TH EDITION 2020 FLORIDA FIRE PREVENTION CODE, NEC 2017 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 DANIEL DUNZIK REGISTERED ARCHITECT. FLORIDA STATE STATUTE 471.003(3) PROVIDES THAT LICENSED ARCHITECTS ARE EXEMPTED FROM THE PROVISIONS OF CHAPTER 471 ENGINEERING AND NOT PRECLUDED FROM PERFORMING ENGINEERING SERVICES FOR INTEGRATED SYSTEMS AND SERVICES THAT ARE INCIDENTAL TO BUILDINGS AND STRUCTURES.

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 7TH EDITION 2020 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. STATUE 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 2020

FBC,	RESIDENTIAL	2020

	TABLE R301.2.1.3										
	WIND SPEED CONVERSIONS ^a										
V _{ult}	110	115	120	130	140	150	160	170	180	190	200
Vaso	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.

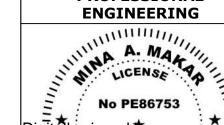
HANWHA Q.PEAK DUO BLK-G10+ 365 365 WATT MODULE 67.6" X 41.1" X 1.26' (SEE DATASHEET)

BILL OF MATERIALS								
22								
22								
48								
9								
1								
1								
2								
2								



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 325 HIGH STREET, METUCHEN, NJ 08840 (732) 902-6224 MOMENTUMSOLAR.COM

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not considered signed and sealed and the signature must be verified on any electronic copies

Date: 2023.03.13 12:03:16 -05:00

SOLAR CONTRACTOR

CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC57036 MOMENTUM SOLAR 5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

CUSTOMER INFORMATION

DANNY WALSH - MS120838 117 SE GRACE GLEN LAKE CITY, FL 32025 5176125549

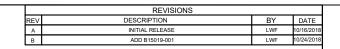
PV SYSTEM INFORMATION

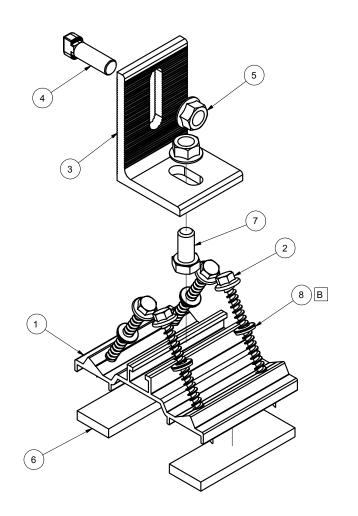
SYSTEM SIZE (DC): 8.03 KW 22 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365 22 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION								
NITIAL	DATE: 3/13/2023	DESIGNER: SN						
EV:	DATE:	DESIGNER:						
EV:	DATE:	DESIGNER:						

COVER PAGE

PV-1





THIS DRAWING IS CONFIDENTIAL PROPERTY OF SUNMODO AND ITS CONTENTS MANNOT BE DISCLOSED WITHOUT THE PRIOR WRITTEN CONSENT OF SUNMODO CORP.

IN 1/2" PLYWOOD							
LOAD DIRECTION	FOS=2	FOS=3					
UPLIFT	345	230					
LATERAL.PERP. TO SLOT	140	95					
LATERAL.PARALLEL TO SLOT	265	175					
IN 7/16" OSB							
LOAD DIRECTION	FOS=2	FOS=3					
UPLIFT	190	125					
LATERAL.PERP. TO SLOT	125	85					
LATERAL.PARALLEL TO SLOT	135	90					

NOTES

- * Factor of Safety as shown
- * Torque at 3/8" T-Bolt = 15ft.lbs (20 N.m)
- * All loads in pounds force
- * Values valid only for conditons equal or better than test conditions
- * Values valid only when product is used in accordance with SunModo installation instruction and other technical documentation
- * The kit as shown in the BOM. For alternative configurations, contact SunModo
- 4 1/4" Deck Screws in Min 7/16" OSB

В	8	B15019-00	1	SEALIN	IG WASHER .26 ID X .50	X .125		4		
	7	B15018-00	1	HEX CA	HEX CAP SCREW 3/8-16 X 3/4					
	6	C50001-00	1	GASKE	GASKET, EPDM, WITH ADHESIVE					
	5	B15003-00	1	FLANG	E NUT 3/8-16			2		
	4	B20007-00	2	T-BOLT	3/8-16X1.0", 304 SS			1		
	3	A20062-00	1	L FOOT	-			1		
	2	B15039-00	1	HEX W	ASHER HEAD LAG BOLT	1/4X3		4		
	1	A50224-00	1	METAL	METAL ROOF DECK MOUNT					
	ITEM	PART N	UMBER		DESCRIPTION					
	MATERIAL SEE NOTES Third Angle Projection: GENERAL SPECIFICATIONS All Dimensions in inches [millimeters] Tolerances XXXX 20.07 [0.56mm] XXX 40.07 [0.56mm] XXX 40.07 [0.50mm] DIMES otherwise specified. DATE DATE MATERIAL SEE NOTES Break all sharp edges 010-020 unless otherwise specified. DATE DATE			SunModo Corp.						
				14800 NE 65TH STREET, VANCOUVER WA 98682						
				METAL ROOF DECK MOUNT KIT						
	DRAWN BY									
Y		ЗҮ	DATE 10/16/2018	В	DRAWING NUMBER K50532-00	1 STRUC	ΓURE			



Make your next metal roof attachment without the daunting task of locating the

truss. SunModo's EZ Grip Metal Deck Mount installs into 26 gauge sheet metal, 1/2 plywood or 7/16 OSB roof decking material.

SunModo's EZ Grip Metal Deck Mount installs in just minutes into sheet metal, plywood or OSB roof decking. The four

included 1/4 x 3" Hex Washer Head Self-tapping Screws have the length to penetrate though 1-1/2 inches of insulation while still piercing completely through the roof decking. And since the four screws are guided by the aluminum extruded base to penetrate at a 30-degree angle, the Metal Roof Deck Mount Kit offers superior attachment performance. 1/4-20 Self-drilling screws can be used for attachments into 26 gauge minimum thickness metal roofs.

The EZ Grip Metal Deck Mount is designed to fit on the most popular R-Panel and U-Panel trapezoidal types of metal roofs. The aluminum extruded base easily clears roof profiles 7/16" tall by 1-1/2" wide. The EPDM gaskets on the washers and on the aluminum extruded base combine to provide a water tight seal at the roof penetration site.



EZ GRIP METAL DECK MOUNT

Features and Benefits

- Attaches into 1/2 plywood or 7/16 OSB roof decking material using four 1/4 \times 3" Hex Washer Head Self-tapping Screws
- Attaches into 26 gauge minimum thickness sheet metal using four 1/4 x 2" Hex Washer Head
 Self-drilling Screws
- Angled penetrations provide superior attachment performance
- · A wide variety of L-feet and attachment options are available
- Passed the High-Velocity Hurricane Zone (HVHZ) –TAS 100(a) Wind-Driven Rain Test

SunModo Corp | Vancouver, WA | 360-844-0048 Document Number D10153-V003 | ©2019 – SunModo Corp

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A Maker: Reason This it is had has been electronically signed and sealed by Mina Maker. PE
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Bate And Griero Stamp Anawar.
Reason digital signature of rinted expressorating signature areas sealed #
and digital signature areas sealed #

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SOLAR CONTRACTOR

CAMERON CHRISTENSEN
CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC57036
MOMENTUM SOLAR
5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

CUSTOMER INFORMATION

DANNY WALSH - MS120838 117 SE GRACE GLEN LAKE CITY, FL 32025 5176125549

PV SYSTEM INFORMATION

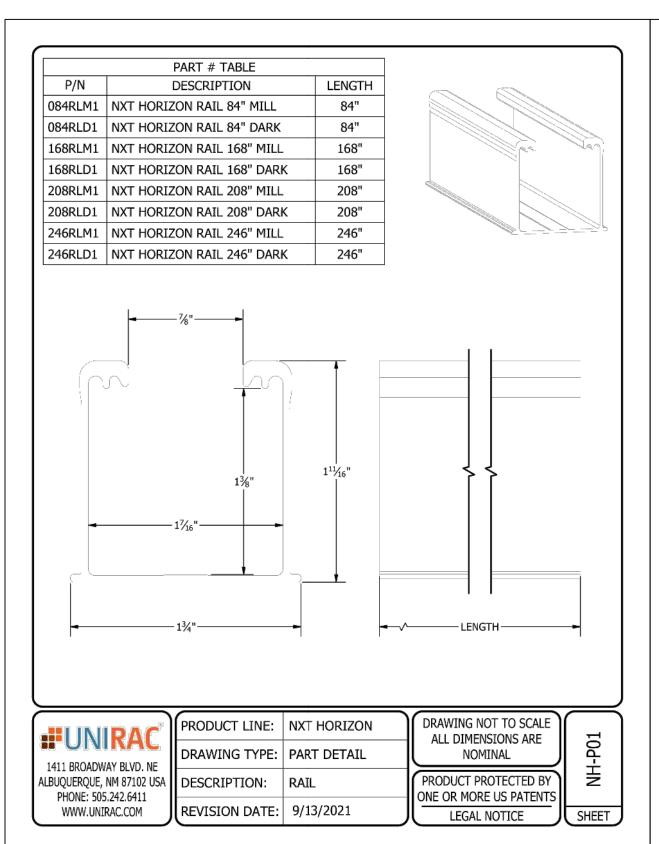
SYSTEM SIZE (DC): 8.03 KW
22 MODULES: HANWHA Q.PEAK DUO
BLK-G10+ 365
22 INVERTERS: ENPHASE
IQ8PLUS-72-2-US

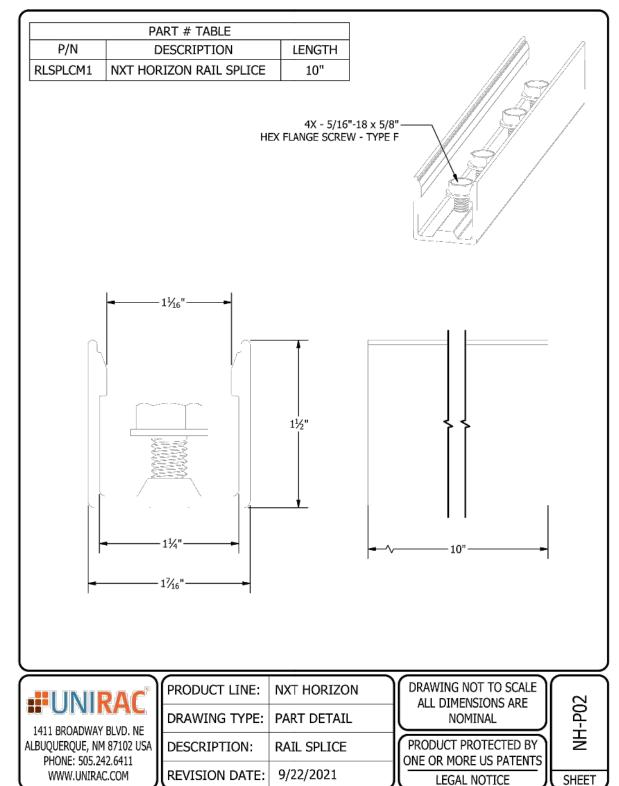
PROJECT INFORMATION							
INITIAL	DATE: 3/13/2023	DESIGNER: SN					
REV:	DATE:	DESIGNER:					
REV:	DATE:	DESIGNER:					

ATTACHMENT DETAIL

PV-1.1

ATTACHMENT DETAIL FOR METAL STANDING SEAM ROOF







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No PE86753

Digitally signed by

Reason: Digitally signed by Reason: Digitally signed by Mina A Maker: Reason This it is has been electronically signed and sealed by Mina Maker, PE 86753, COA # \$3404] on the Date my signed property and sealed by maker reseason digital reignature. Printed entires relatives great and sealed # and the signature and the Stamp service of sanguagnature and the Stamp services.

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SOLAR CONTRACTOR

CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC5703 MOMENTUM SOLAR 5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

CUSTOMER INFORMATION

DANNY WALSH - MS120838 117 SE GRACE GLEN LAKE CITY, FL 32025 5176125549

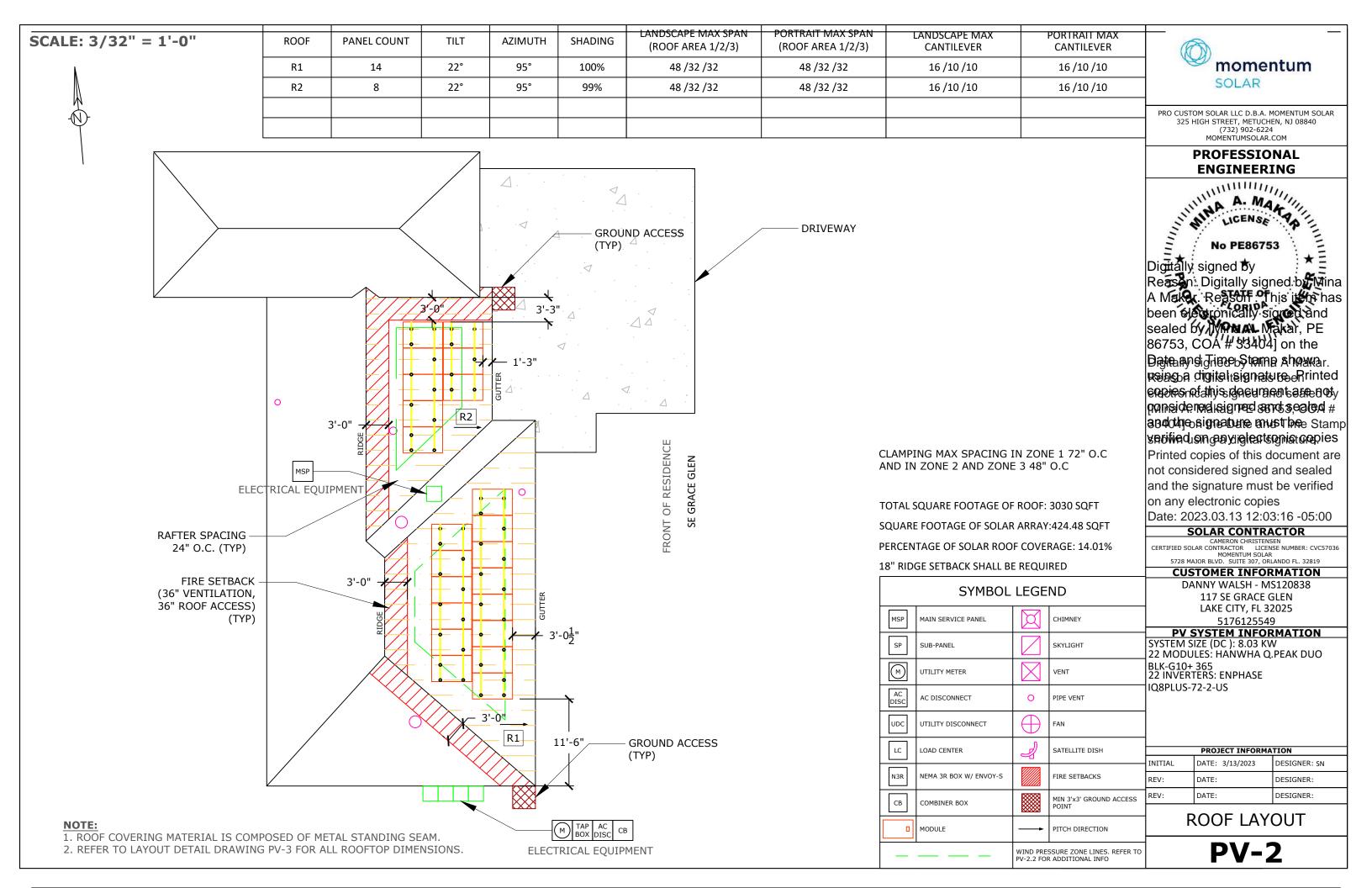
PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 8.03 KW
22 MODULES: HANWHA Q.PEAK DUO
BLK-G10+ 365
22 INVERTERS: ENPHASE
IQ8PLUS-72-2-US

PROJECT INFORMATION								
INITIAL	DATE: 3/13/2023	DESIGNER: SN						
REV:	DATE:	DESIGNER:						
REV:	DATE:	DESIGNER:						

ATTACHMENT DETAIL

PV-1.1 (2)



PV MODULE RATINGS		INVERTER RATINGS		VOLTAGE DROP CALCULATIONS									
	MODULE MAKE	HANWHA	INVERTER MAKE ENPHASE			FORMULA US	ed per nec h	ANDBOOK 215	5.2(A)(4) WHE	RE APPLICABL	E		
	MODEL	Q.PEAK DUO	MODEL	IQ8PLUS-72-2-	WIRE RUN	V_{mp}	I _{mp}	R	L (FT)	Vo	% V _o	WIRE SIZE	
	-	BLK-G10+ 365	WIODEL	US	BRANCH TO J-BOX	240.00	13.31	1.98	72.42	3.817	1.59%	12 AWG	
	MAX POWER	365W	MAX OUTPUT POWER	290W	BIVAIVEIT TO 3 BOX	240.00	13.51	1.56	72.42	3.017	1.55%	12 AWG	PR
	OPEN CIRCUIT VOLTAGE	41.21V	OPEN DC VOLTAGE	60V	J-BOX TO LOAD CENTER	240.00	26.62	1.24	50.00	3.301	1.38%	10 AWG	
	MPP VOLTAGE	34.58V	NOMINAL AC VOLTAGE	240V	LOAD CENTER TO AC							-	\vdash
	SHORT CIRCUIT CURRENT	11.07A	MAX AC CURRENT	1.21A	DISCONNECT	240.00	33.275	0.778	3.00	0.155	0.06%	08 AWG	
	MPP CURRENT	10.56A	CEC INVERTER EFFICIENCY	97%	AC DISCONNECT TO INTERCONNECTION	240.00	33.275	0.491	10.00	0.327	0.14%	06 AWG	
	NUMBER OF MODULES	22	NUMBER OF INVERTERS	22	INTERCONNECTION								1

SUB PANEL **BREAKER SIZE**

UL1703 COMPLIANT

PV BREAKER # OF MODULES PER BRANCH **UP TO 16** 20A

TERMINATION CAP

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

- INSTALLED ON

END OF CABLE

YES

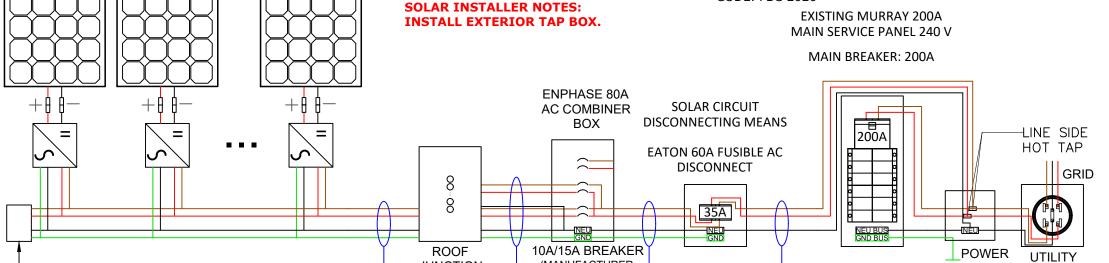
THIS SOLAR PHOTOVOLTAIC SYSTEM COMPLIES WITH THE 2020 FLORIDA BUILDING CODE AND THE 2017 NATIONAL ELECTRICAL CODE

YES

22 HANWHA Q.PEAK DUO BLK-G10+ 365 365W MODULES PAIRED WITH 22 ENPHASE IQ8PLUS-72-2-US MICRO-INVERTERS

_UL1703 COMPLIANT

BRANCH CIRCUIT A 11 MICRO-INVERTERS **BRANCH CIRCUIT B** 11 MICRO-INVERTERS



(MANUFACTURER

SUPPLIED FOR

ENVOY)

20A BREAKER (A)

20A BREAKER (B)

Wire Derated **Ground Wire** Wire Inverter Design Temp. Conduit NEC Temp. Ground Wire Tag Wire Qty Wire Type NOC (A) Conduit Gauge Rating Ampacity (A) Ampacity (A) Qty Current (A) Type Derate Fill Derate Correction Size OPEN AIR 2 12 AWG Trunk Cable 90°C 30 0.96 28.80 11 1.21 1.25 16.64 12 AWG 1 Trunk Cable 2A 10 AWG THWN-2 75°C 35 0.96 26.88 11 1.21 1.25 16.64 3/4" PVC 4 0.8 08 AWG THWN-2 2B 75°C 10 AWG THWN-2 35 0.96 26.88 11 1.21 1.25 16.64 3 3/4" PVC 3 + G08 AWG THWN-2 75°C 50 0.96 1 48.00 22 1.21 1.25 33.28 08 AWG THWN-2 3/4" PVC 06 AWG THWN-2 75°C 65 0.96 1 62.40 22 1.21 1.25 33.28 THWN-2

JUNCTION

BOX

momentum SOLAR

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PROFESSIONAL ENGINEERING



A Maker Reason This it is has been electronically signed and sealed by MANAL Makar, PE LICENSED PURSUANT TO CHAPTER 471, CERTIFY THAT THE PV DESIGNED AND APPROVED USING THE STANDARDS CONTAINED 86753, COA # \$3404] on the Date and Jine Stame shawar. ksiaspa digitaltsignatureeRrinted |eadiesnotathis:daeumentseaendty pansidenad signed sandseated # | **3040th| 606 igneature anust he** Stamp

FSEC CERTIFICATION STATEMENT:

CODE. FBC 2020

35A FUSES

PER FL. STATUE 377.705, I, MINA A. MAKAR PE# 86753,

CERTIFICATE OF AUTHORIZATION #33404, AN ENGINEER

ELECTRICAL SYSTEM AND ELECTRICAL COMPONENTS ARE

IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING

F GROUND

TAP BOX

METER

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SOLAR CONTRACTOR

CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC57036 MOMENTUM SOLAR 5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

CUSTOMER INFORMATION

DANNY WALSH - MS120838 117 SE GRACE GLEN LAKE CITY, FL 32025 5176125549

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 8.03 KW 22 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365 22 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION				
INITIAL	DATE: 3/13/2023	DESIGNER: SN		
REV:	DATE:	DESIGNER:		
REV:	DATE:	DESIGNER:		

THREE LINE DIAGRAM

PV-3

ELECTRICAL NOTES:

- 1. ALL CALCULATIONS FOR VOC, VMAX, IMP AND ISC HAVE BEEN CALCULATED USING THE MANUFACTURED STRING CALCULATOR BASED ON ASHRAE 2% HIGH AND EXTREME MINIMUM TEMPERATURE COEFFICIENTS.
- 2. THE ENTIRE ARRAY IS BONDED ACCORDING TO (NEC 690.46 250.120 PARAGRAPH C). THE GROUND IS CARRIED AWAY FROM THE GROUNDING LUG USING #6 BARE COPPER WIRE OR #8 THWN-2 COPPER WIRE.
- 3. THIS SYSTEM COMPLIES WITH NEC 2017
- BRANCH CIRCUIT CALCULATION FOR WIRE TAG 1 DISPLAYS THE LARGEST BRANCH CIRCUIT IN SYSTEM. OTHER BRANCH CIRCUITS SHALL HAVE LOWER DESIGN CURRENT THAN THE ONE SHOWN. IN ADDITION, VOLTAGE DROP CALCULATIONS FROM PANELS TO THE COMBINER BOX SHALL BE SHOWN IN A SIMILAR FASHION
- 5. ALL CONDUCTORS ARE SIZED BASED ON NEC 2017 ARTICLE 310
- 6. ALL EQUIPMENT INSTALLED IS RATED AT 75°C
- 7. INVERTER NOC (NOMINAL OPEN CURRENT) OBTAINED FROM **EQUIPMENT DATASHEET**
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL LOCAL AND NATIONAL CODE REQUIREMENTS.
- 9. EACH MODULE MUST BE GROUNDED ACCORDING TO USER **INSTRUCTIONS**
- 10. ALL EQUIPMENT SHALL BE LISTED PER NEC 690.4(B)
- 11. PER NEC 690.13. 690.15. PROVIDE A WARNING SIGN AT ALL LOCATIONS WHERE TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION> SIGN SHALL READ *WARNING -ELECTRIC SHOCK HAZARD - DO NOT TOUCH TERMINALS - OR EQUIVALENT.
- 12. PER NEC 705.10. PROVIDE A PERMANENT PLAQUE OR DIRECTORY SHOWING ALL ELECTRIC POWER SOURCES ON THE PREMISES AT SERVICE ENTRANCE.
- 13. INTERCONNECTION METHOD SHALL COMPLY WITH NEC 705.12
- 14. AND OPTION FOR A SINGLE CIRCUIT BRANCH TO BE SPLIT INTO TWO SUB-CIRCUIT BRANCHES IS ACCEPTABLE
- 15. ALL CONDUCTORS MUST BE COPPER.
- 16. NEUTRAL AND EQUIPMENT GROUNDING CONDUCTOR BONDED AS PER NEC 250.24(C).
- 17. EQUIPMENT GROUNDING CONDUCTOR IS CONNECTED TO A GROUNDING ELECTRODE SYSTEM PER 250.54(D).
- 18. FUSES FOR PV DISCONNECT HAVE AIC RATINGS OF 200KA AC AND 20KA DC.
- 19. SUPPLY SIDE CONNECTION SHALL BE MADE USING ILSCO INSULATION PIERCING CONNECTORS (IPC). MAKE, MODEL, AND RATING OF INTERCONNECTION CAN BE SEEN ON TABLE 1 BELOW.
- 20. METHOD OF INTERCONNECTION CAN BE SEEN IN FIGURE 1.
- 21. UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE.

- 22. WORKING CLEARANCES AROUND THE EXISTING AND NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC ARTICLE 110.26
- CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300.6 (C)(1) AND ARTICLE 310.8 (D).
- 24. CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.10 (C).
- 25. TOTAL AREA OF ALL CONDUCTORS, SPLICES, AND TAPS INSTALLED AT ANY CROSS SECTION OF THE WIRING DOES NOT EXCEED 75% OF THE CROSS SECTIONAL AREA OF THE SPACE. NEC 312.8(A)(2).
- 26. SYSTEM IS CONSIDERED AN AC MODULE SYSTEM. NO DC CONDUCTORS ARE PRESENT IN CONDUIT, COMBINER, JUNCTION BOX, DISCONNECT. AND COMPLIES WITH 690.6 - NO DC DISCONNECT AND ASSOCIATED DC LABELING ARE REQUIRED.
- 27. SYSTEM COMPLIES WITH 690.12 RAPID SHUTDOWN AND ASSOCIATED LABELING AS PER 690.56(C). AC VOLTAGE AND SYSTEM OPERATING CURRENT SHALL BE PROVIDED 690.52.
- 28. CONDUCTORS IN CONDUIT ARE AC CONDUCTORS BRANCH CIRCUITS AND NOT PV SOURCE CIRCUITS, 690.6.
- 29. ALL GROUNDING SHALL COMPLY WITH 690.47(A) IN THAT THE AC MODULES WILL COMPLY WITH 250.64.
- 30. NO TERMINALS SHALL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.13, 690.15, 690.6.
- 31. WHERE APPLICABLE: INTERCONNECTION SHALL COMPLY WITH 705.12(A) OR 705.12(B)
- 32. ALL WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH 2017 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.
- PV POWER CIRCUIT LABELS SHALL APPEAR ON EVERY SECTION OF THE WIRING SYSTEM THAT IS SEPARATED BY ENCLOSURES. WALLS, PARTITIONS, CEILINGS, OR FLOORS.

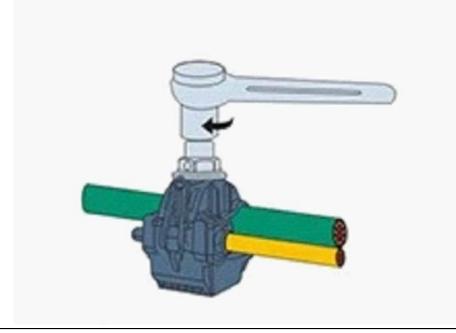
TABLE 1:

MAKE	MODEL	VOLTAGE RATING	CONDUCTOR RANGE MAIN	CONDUCTOR RANGE TAP
ILSCO	IPC 4006	600 V	4/0-4 AWG	6-14 AWG
ILSCO	IPC 4020	600 V	4/0-2 AWG	2/0-6 AWG

INSTRUCTIONS FOR LINE TAPS

FIGURE 1:

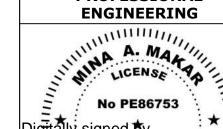
- 1. ADJUST THE CONNECTOR NUT TO SUITABLE LOCATION
- PUT THE BRANCH WIRE INTO THE CAP SHEATH FULLY
- INSERT THE MAIN WIRE, IF THERE ARE TWO LAYS OF INSULATED LAY IN THE MAIN CABLE, SHOULD STRIP A CERTAIN LENGTH OF THE FIRST INSULATED LAY FROM INSERTED END
- TURN THE NUT BY HAND, AND FIX THE CONNECTOR IN SUITABLE LOCATION.
- SCREW THE NUT WITH THE SLEEVE SPANNER.
- SCREW THE NUT CONTINUALLY UNTIL THE TOP PART IS CRACKED AND DROPPED DOWN





PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 325 HIGH STREET, METUCHEN, NJ 08840 (732) 902-6224 MOMENTUMS OF ARCOM

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SOLAR CONTRACTOR

CAMERON CHRISTENSEN

CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC57036 MOMENTUM SOLAR 5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

CUSTOMER INFORMATION

DANNY WALSH - MS120838 117 SE GRACE GLEN LAKE CITY, FL 32025 5176125549

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 8.03 KW 22 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365 22 INVERTERS: ENPHASE IQ8PLUS-72-2-US

		PROJECT INFORMATION				
INITIAL		DATE: 3/13/2023	DESIGNER: SN			
	REV:	DATE:	DESIGNER:			
	REV:	DATE:	DESIGNER:			

ELECTRICAL CONT.

PV-3.1

ALL	WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH NEC ARTICLE 110.21(B). LABEL WARNINGS SI	HALL ADEQUATELY W	ARN OF THE HAZARD. LABE	LS SHALL BE PERMANENTLY AFFIXED TO THE E	EQUIPMENT, AND LABELS REQUIRED SHALL BE SUITABLE FOR THE ENVIRONMENT.
TAG	LABEL	QUANTITY	LOCATION	NOTE	EXAMPLES
A	AC SOLAR VOLTAGE	12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'	SOLAR INSTALLER NOTES:
B	WARNING: PHOTOVOLTAIC POWER SOURCE PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN	1	COMBINER BOX	1 AT ANY COMBINER BOX	INSTALL EXTERIOR TAP BOX.
©	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	
(E)	PHOTOVOLTAIC SYSTEM AC DISCONNECT RATED AC OUTPUT CURRENT NOMINAL OPERATING AC VOLTAGE POWER TO THIS SERVICE IS ALSO SUPPLIED FROM ON-SITE SOLAR GENERATION AC SYSTEM DISCONNECT AC WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION RAPID SHUTDOWN SWITCH FO SOLAR PV SYSTEM INSTALLED BY MOMENTUM SOLAR 3096 B HAMILTON BLVD S. PLAINFIELD, NJ 07080 PHONE NUMBER:732-902-6224		AC DISCONNECT (RSD SWITCH)	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL	A STATE OF THE STA
Ē	DUAL POWER SUPPLY SECOND SOURCE IS PHOTOVOLTAIC SYSTEM	1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD	ECTRIC SHOCK HAZARD DO NOT TOUGHTERMINALS TERRIAN FOR HIS LIKE NO LIXED SICE SHAP TO SHOCKED IN THE GASH POSITION AND SECOND TO SHOCKED IN THE GASH POSITION
© .	EMERGENCY RESPONDER THIS SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN ENTIRE PV SYSTEM SECOND SOURCE IS RECORD OF THE PV SYSTEM SECOND SOURCE IS RECORD OF THE PV SYSTEM THAT SECOND SOURCE IS PHOTOVOLTAIC SYSTEM WARNING	1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD	A SUSCEPTION OF THE PROPERTY O
(H)	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		







B







G BACKFEED



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 325 HIGH STREET, METUCHEN, NJ 08840 (732) 902-6224 MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING

No PE86753

Digitally signed by Reason: Digitally signed by Reason: Digitally signed by Mina A Maker: Reason of this it in has been electronically signed and sealed by Mina Maker, PE 86753, COA # \$3404] on the Bate and Time Steman shower Date and Jierb Stame Ahawar. resingua digitaltaignatureeRrinted environtalinis igaeura en toate outy pansidenalisigned and sealed # andounesignature must be Stamp serified singay iglectromist copies Printed copies of this document are

and the signature must be verified on any electronic copies Date: 2023.03.13 12:03:16 -05:00

not considered signed and sealed

SOLAR CONTRACTOR

CAMERON CHRISTENSEN
CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC57036
MOMENTUM SOLAR
5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

CUSTOMER INFORMATION

DANNY WALSH - MS120838 117 SE GRACE GLEN LAKE CITY, FL 32025 5176125549

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 8.03 KW 22 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365 22 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION				
INITIAL	DATE: 3/13/2023	DESIGNER: SN		
REV:	DATE:	DESIGNER:		
REV:	DATE:	DESIGNER:		

EQUIPMENT LABELS

PV-3.2