

SYSTEM INFORMATION	
MODULE	HANWHA Q-PEAK DUO BLK ML-G10+ 410
INVERTER	ENPHASE IQ8MC-72-M-US
RACKING	UNIRAC NXT HORIZON 2-RAIL RACKING SYSTEM
SYSTEM SIZE (DC)	11.48 KW
LOCATION	30.1804777, -82.6073771

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	28
INVERTERS	28
L-FOOT ATTACHMENT W/ UNIRAC NXT	56
171" RAILS	13
ENPHASE COMBINER BOX	1
EATON 60A FUSIBLE AC DISCONNECT	1
50A FUSES	2
125A LINE TAPS	2

PROJECT INFORMATION	
INITIAL	DATE: 8/1/2024
DESIGNER: ANL	
REV:	DATE:
DESIGNER:	
REV:	DATE:
DESIGNER:	

COVER PAGE

PV-1



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
323 HIGHWAY 17, SUITE 100
ORLANDO, FL 32836
(732) 902-4824
MOMENTUMSOLAR.COM

PROFESSIONAL
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SOLAR CONTRACTOR
CAMERON CHRISTENSEN
CERTIFIED SOLAR CONTRACTOR
5728 MADRID BLVD., SUITE 307, ORLANDO FL 32819

CUSTOMER INFORMATION
BARBARA JEFFERSON - MS155362
564 SE DEFENDER DR
LAKE CITY, FL 32025
(386) 292-2541

PV SYSTEM INFORMATION
SYSTEM SIZE (DC): 11.48 KW
28 MODULES: HANWHA Q-PEAK DUO BLK ML-G10+ 410
28 INVERTERS: ENPHASE IQ8MC-72-M-US

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DESIGNER:	

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PV-1

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SYSTEM INFORMATION

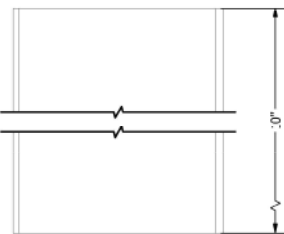
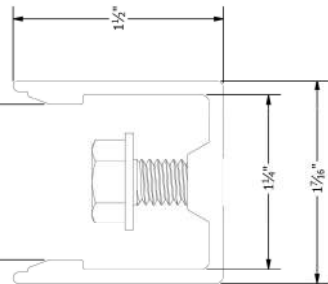
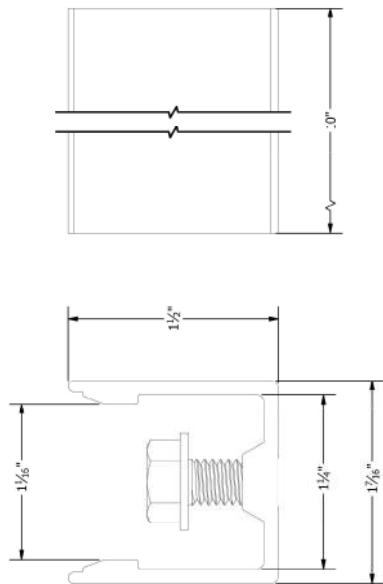
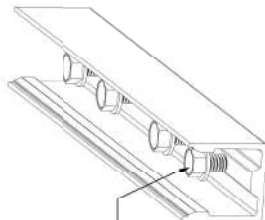
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PROJECT INFORMATION		
INITIAL	DATE: 8/1/2024	DESIGNER: AKL
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ATTACHMENT DETAIL

PV-1.1

PART # TABLE		
P/N	DESCRIPTION	LENGTH
RLSPCLM1	NXT HORIZON RAIL SPLICE	10"



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

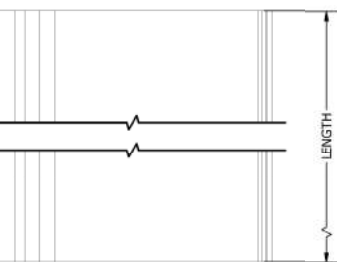
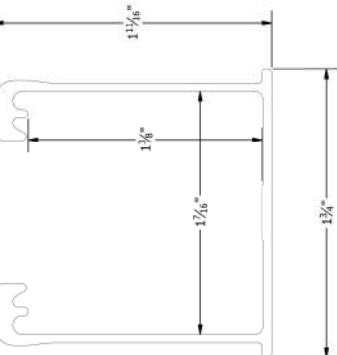
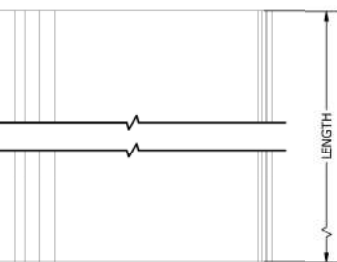
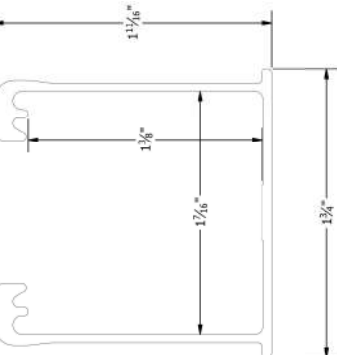
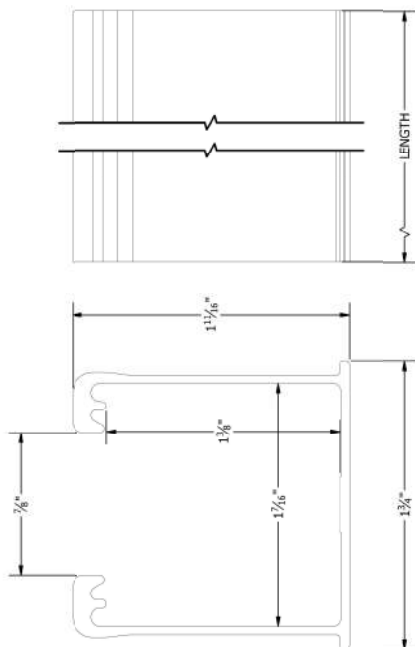
DRAWING NOT TO SCALE
ALL DIMENSIONS ARE
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PRODUCT PROTECTED BY
ONE OR MORE US PATENTS

LEGAL NOTICE

NH-P02	SHEET
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PART # TABLE		LENGTH
P/N	DESCRIPTION	
084RLM1	NKT HORIZON RAIL 84" MILL	84"
084RLD1	NKT HORIZON RAIL 84" DARK	84"
168RLM1	NKT HORIZON RAIL 168" MILL	168"
168RLD1	NKT HORIZON RAIL 168" DARK	168"
208RLM1	NKT HORIZON RAIL 208" MILL	208"
208RLD1	NKT HORIZON RAIL 208" DARK	208"
246RLM1	NKT HORIZON RAIL 246" MILL	246"
246RLD1	NKT HORIZON RAIL 246" DARK	246"



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

DRAWING NOT TO SCALE
ALL DIMENSIONS ARE
NOMINAL

PRODUCT PROTECTED BY
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LEGAL NOTICE

NH-P01	SHEET
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The seal is circular with a double-lined border. The outer ring contains the text "MINA A. MAKAR" on the left and "PROFESSIONAL ENGINEER" on the right, separated by two stars. The inner circle contains the text "LICENSE" on the left and "STATE OF FLORIDA" on the right, separated by two stars. In the center of the seal is the license number "No PE86753".

Date: 2024.08.23 17:21:15 -04'00'

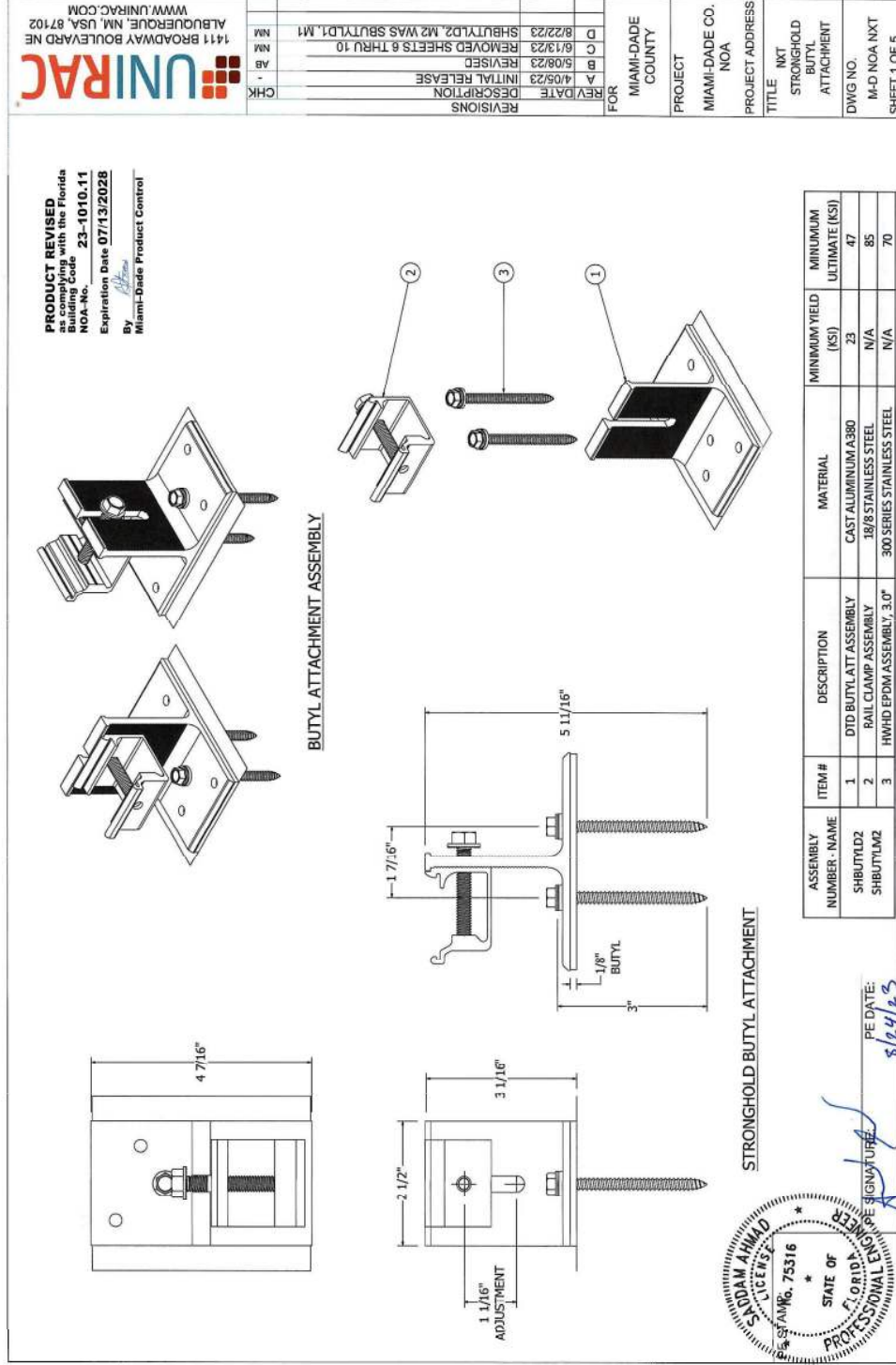
CAMERON CHRISTENSEN
CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC57036
MOMENTUM SOLAR
5728 MAYOR BLVD SUITE 307 ORLANDO FL 32819

BARBARA JEFFERSON - MS155362
564 SE DEFENDER DR
LAKE CITY, FL 32025
(386) 292-2541

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REV:	DATE:	DESIGNER:

PV-1.1 (2)



Q.PEAK DUO BLK ML-G10+ SERIES

385-410Wp | 132 Cells
20.9% Maximum Module Efficiency

MODEL Q.PEAK DUO BLK ML-G10+



The ideal solution for:
Rooftop arrays on
residential buildings



Breaking the 20% efficiency barrier
QUANTUM DUO 2 Technology with zero gap cell layout
boosts module efficiency up to 20.9%.



A reliable investment
Includes 25-year product warranty and 25-year linear
performance warranty.



Enduring high performance
Long-term yield security with Anti-LETO Technology,
Anti-RED Technology¹ and Hot-Spot Protect.



Extreme weather rating
High-tech aluminum alloy frame, certified for
high wind (140MPa) and hail (50MPa).



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



**The most thorough testing
programme in the industry**
Ocells is the first solar module manufacturer to pass the
most comprehensive quality programme in the industry. The
most rigorous "Type 1" of the independent certification
Institute TÜV Rheinland.

1 See data sheet on rear for further information.
2 All test conditions according to IEC TS 62504-1:2016, method 14-50001-304



Q.PEAK DUO BLK ML-G10+ SERIES

Mechanical Specification

Format	74.0in × 41in × 1.26in (including frame)
Weight	18.9lbs (8.59kg)
Front Cover	0.3in (3.2mm) tempered pre-stressed glass
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 22 monocrystalline Q-ANTUM solar half cells
Junction box	2.09 × 3.94in × 1.52 × 2.35in (52 × 100 × 39mm) IP67 with bypass diodes
Cable	4mm ² Solar cable: (H) 1.82m (6'0") (L) 1.82m (6'0")
Connector	Solar MC4, IP68

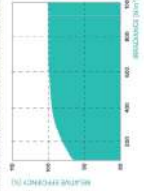
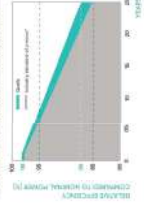
Electrical Characteristics

POWER CLASS	385	390	395	400	405	410
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS (STC) POWER TOLERANCE ±1W/-0W						
Power at MPPT	P _{max} [W]	385	390	395	400	405
Short Circuit Current ¹	I _{sc} [A]	11.04	11.07	11.10	11.14	11.17
Open Circuit Voltage ²	V _{oc} [V]	45.23	45.27	45.30	45.34	45.37
Current at MPPT	I _{mp} [A]	10.59	10.65	10.71	10.77	10.83
Voltage at MPPT	V _{mp} [V]	36.36	36.62	36.88	37.13	37.64
Efficiency ³	η [%]	218.6	219.9	220.1	220.4	220.9

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS (NOCT)⁴

Power at MPPT	P _{max} [W]	288.8	292.6	296.3	300.3	303.8
Short Circuit Current	I _{sc} [A]	8.90	8.92	8.95	8.97	9.00
Open Circuit Voltage	V _{oc} [V]	42.62	42.65	42.69	42.72	42.76
Current at MPPT	I _{mp} [A]	8.35	8.41	8.46	8.51	8.57
Voltage at MPPT	V _{mp} [V]	34.59	34.81	35.03	35.25	35.46
Measurement tolerances P _{max} ±3%, V _{oc} ±5%, V _{mp} ±5% at STC, 1000 W/m ² , 25.0 °C, AM 1.5 according to IEC 60904-3 + 800 W/m ² , NOCT, spectrum AM 1.5						

Ocells PERFORMANCE WARRANTY



1 See data sheet on rear for further information.
2 All test conditions according to IEC TS 62504-1:2016, method 14-50001-304

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{sc}	α [%/K]	β [%/K]	γ [%/K]
Temperature Coefficient of V_{oc}	-0.04	-0.27	-0.27
Temperature Coefficient of P_{max}	-0.34	-0.34	-0.34
Nominal Module Operating Temperature			NOCT [°C]
			49.5 ± 4
			M3 ± 3%

Properties for system design

Maximum System Voltage	V _{max} [V]	1000 (IEC 60000 ILL)
Maximum Series (line Rating)	[A DC]	20
Max Design Load (Push/Pull) ¹	[N/m ²]	75 (3600Pa) / 15 (700Pa)
Max Test Load (Push/Pull) ²	[N/m ²]	115 (5400Pa) / 14 (660Pa)

Qualifications and Certificates



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SOLAR CONTRACTOR

CERTIFIED SOLAR CONTRACTOR
MOMENTUM SOLAR
5728 MADRID BLVD., SUITE 307, ORLANDO FL 32819

CUSTOMER INFORMATION

BARBARA JEFFERSON - MS155362
564 SE DEFENDER DR
LAKE CITY, FL 32025
(386) 292-2541

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 11.48 KW
28 MODULES: HANWHA Q.PEAK DUO BLK
ML-G10+ 410
28 INVERTERS: ENPHASE IQ8MC-72-M-US

PROJECT INFORMATION

INITIAL	DATE: 8/1/2024	DESIGNER: AKL
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

PANEL DETAIL

PV-1.4

PV MODULE RATINGS			INVERTER RATINGS		VOLTAGE DROP CALCULATIONS						
MODULE MAKE	HANWHA	INVERTER MAKE	ENPHASE	FORMULA USED PER NEC HANDBOOK 215.2(A)(4) WHERE APPLICABLE							
MODEL	HANWHA Q.PEAK DUO BLK ML-G10+ 410	MODEL	Enphase IQ8MC-72-M-U S	WIRE RUN	V _{mp}	I _{mp}	R	L (FT)	V _o	% V _o	WIRE SIZE
MAX POWER	410W	MAX OUTPUT POWER	320W	BRANCH TO J-BOX	240.00	13.3	1.98	65.83	3.467	1.44%	12 AWG
OPEN CIRCUIT VOLTAGE	45.37V	OPEN DC VOLTAGE	60V	J-BOX TO LOAD CENTER	240.00	37.24	1.24	50.00	4.618	1.92%	10 AWG
MPP VOLTAGE	37.64V	NOMINAL AC VOLTAGE	240V	LOAD CENTER TO AC DISCONNECT	240.00	46.55	0.491	3.00	0.137	0.06%	06 AWG
SHORT CIRCUIT CURRENT	11.2A	MAX AC CURRENT	1.33A	AC DISCONNECT TO INTERCONNECTION	240.00	46.55	0.491	10.00	0.457	0.19%	06 AWG
MPP CURRENT	10.89A	CEC INVERTER EFFICIENCY	97%								
NUMBER OF MODULES	28	NUMBER OF INVERTERS	28								
UL1703 COMPLIANT	YES	UL1703 COMPLIANT	YES								

SUB PANEL BREAKER SIZE	# OF MODULES	PV BREAKER PER BRANCH	THIS SOLAR PHOTOVOLTAIC SYSTEM COMES WITH THE FOLLOWING FLORIDA BUILDING CODE AND THE 2020
	UP TO 16	20A	

THIS SOLAR PHOTOVOLTAIC SYSTEM COMPLIES WITH THE 2023
FLORIDA BUILDING CODE AND THE 2020 NATIONAL ELECTRICAL CODE

28 HANWHA Q.PEAK DUO BLK ML-G10+ 410 410W MODULES PAIRED WITH

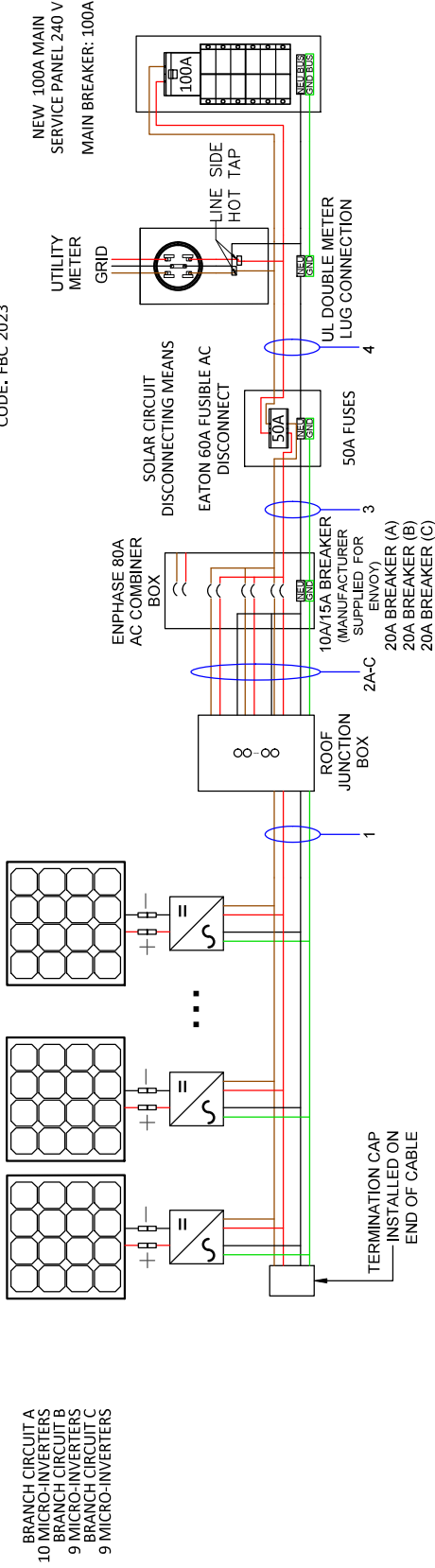
28 ENPHASE IQ8MC-72-M-US MICRO-INVERTERS

FSEC CERTIFICATION STATEMENT:

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CODE. FBC 2023

SOLAR INSTALLER NOTES:

REPLACE EXISTING INTERIOR 100A BUS RATED MAIN SERVICE PANEL WITH NEW INTERIOR 100A BUS RATED MAIN SERVICE PANEL WITH 100A MAIN BREAKER.



Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1	OPEN AIR	3	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	10	1.33	1.25	16.63	12 AWG	Trunk Cable
2A	3/4" PVC	6	10 AWG	THWN-2	75°C	35	0.96	0.8	26.88	10	1.33	1.25	16.63	08 AWG	THWN-2
2B			10 AWG	THWN-2	75°C	35	0.96		26.88	9	1.33	1.25	14.96		
2C			10 AWG	THWN-2	75°C	35	0.96		26.88	9	1.33	1.25	14.96		
3	3/4" PVC	3 + G	06 AWG	THWN-2	75°C	65	0.96	1	62.40	28	1.33	1.25	46.55	08 AWG	THWN-2
4	3/4" PVC	3	06 AWG	THWN-2	75°C	65	0.96	1	62.40	28	1.33	1.25	46.55		THWN-2

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



momentum
SOLAR

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REV:	DATE:	DESIGNER:

THREE LINE DIAGRAM

PV-3

22. WORKING CLEARANCES AROUND THE EXISTING AND NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC ARTICLE 110.26.

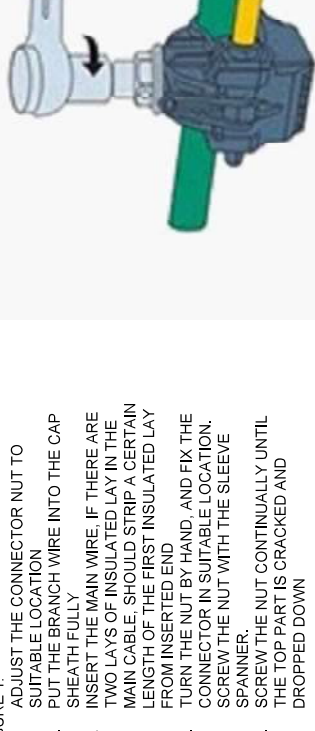
22. WORKING CLEARANCES AROUND THE EXISTING AND NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC ARTICLE 110.26.
23. CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300.6 (C)(1) AND ARTICLE 310.8 (D).
24. CONDUCTORS EXPOSED TO WET LOCATIONS SHALL 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 690.51.
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(B), 690.6.
31. WHERE APPLICABLE, INTERCONNECTION SHALL COMPLY WITH 705.11(A) THROUGH (E) OR 705.12(B) THROUGH (E)
32. ALL WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH 2020 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.
33. PV POWER CIRCUIT LABELS SHALL APPEAR ON EVERY SECTION OF THE WIRING SYSTEM THAT IS SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS.

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

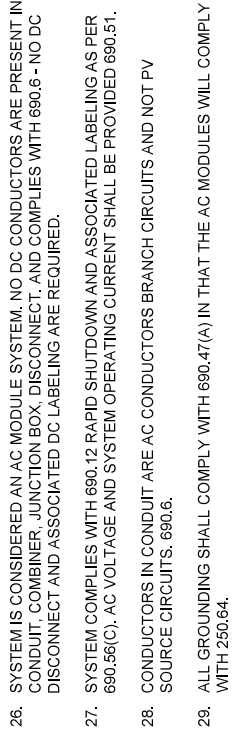
FIGURE 1:

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- 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



24. CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.10 (C).

23. TOTAL AREA OF ALL CONDUCTORS, SPLICED, 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).



30. NO TERMINALS SHALL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.13(B), 690.6.
31. WHERE APPLICABLE, INTERCONNECTION SHALL COMPLY WITH 705.11(A) THROUGH (E) OR 705.12(B) THROUGH (E)
32. ALL WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH 2020 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.
33. PV POWER CIRCUIT LABELS SHALL APPEAR ON EVERY SECTION OF THE WIRING SYSTEM THAT IS SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS.

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

TISSCO	IPC 4030	600 V	1/0-3 AWG	3/0-6 AWG
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1LS30	1FC 4020	000 V	4/0-2 AWG	2/0-0 AWG
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INSTRUCTIONS FOR LINE TAPS

SLIDE 1:

ADJUST THE CONNECTOR NUT TO
SUITABLE LOCATION
PUT THE BRANCH WIRE INTO THE CAP
CREATING

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

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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.					
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 37.24 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
○	⚠ WARNING EMERGENCY RESPONDER THIS SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN TURN RAPID SHUTDOWN SWITCH TO THE TOP POSITION TO DE-ENERGIZE PV SYSTEM		1	BACKFEED PANEL	1 OF EACH AT BUILDING INTERCONNECTION POINT
○	⚠ WARNING POWER SOURCE OUTPUT CONNECTION, DO NOT RELOCATE THIS OVERCURRENT DEVICE		1	AC CURRENT PV MODULES	
○	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				

SOLAR INSTALLER NOTES:
REPLACE EXISTING INTERIOR 100A BUS RATED MAIN SERVICE PANEL WITH NEW INTERIOR 100A BUS RATED MAIN BREAKER, PANEL WITH 100A MAIN BREAKER.



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PROFESSIONAL ENGINEERING



Digitally signed by Mina A Makar
 Reason: This item has been electronically signed and sealed by [Mina A. Makar, PE 86753, COA # 33404] on the Date and Time Stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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SOLAR CONTRACTOR
 CAMERON CHRISTENSEN
 CERTIFIED SOLAR CONTRACTOR
 MOMENTUM SOLAR
 5728 MADRID BLVD, SUITE 307, ORLANDO FL 32819

CUSTOMER INFORMATION
 BARBARA JEFFERSON - MS155362
 564 SE DEFENDER DR
 LAKE CITY, FL 32025
 (386) 292-2541

PV SYSTEM INFORMATION
 SYSTEM SIZE (DC): 11.48 KW
 28 MODULES: HANWHA Q.PEAK DUO BLK ML-G10+ 410
 28 INVERTERS: ENPHASE IQ8MC-72-M-US

PROJECT INFORMATION
 INITIAL DATE: 8/1/2024 DESIGNER: AVL
 REV: DATE: DESIGNER:
 REV: DATE: DESIGNER:

EQUIPMENT LABELS

PV-3.2