

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_{asfd}	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



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SOLAR CONTRACTOR
CAMERON CHRISTENSEN
PROFESSIONAL ENGINEER
CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CQC37036
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	DESIGNER: ANL
REV:	DATE:
REV:	DATE:

COVER PAGE

PV-1



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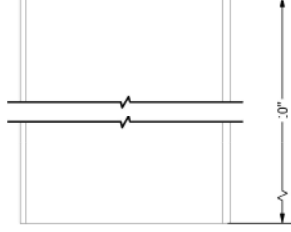
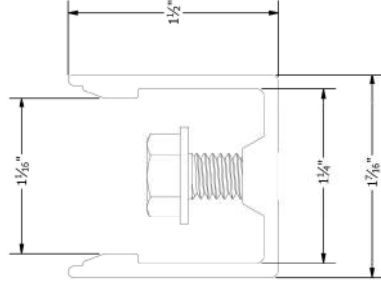
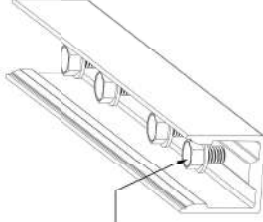
INITIAL	DATE: 8/1/2024	DESIGNER: AKL
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ATTACHMENT DETAIL

PV-1.1

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

4X - 5/16"-18 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

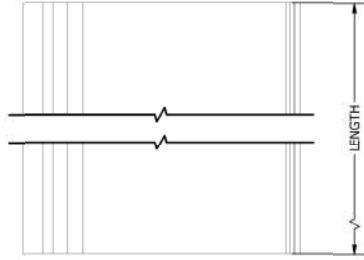
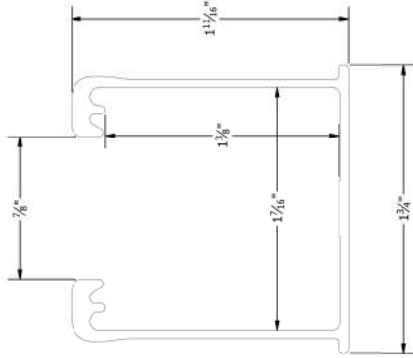
PRODUCT PROTECTED BY
ONE OR MORE US PATENTS

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

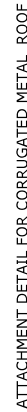
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LEGAL NOTICE

NH-P01

SHEET



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
Q.PEAK 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 Protection.



Extreme weather rating
High-tech aluminum alloy frame, certified for
high winds (140MPa) and wind loads (100CPA).



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



**The most thorough testing
programme in the industry**
Qcells is the first solar module manufacturer to pass the
most comprehensive quality programme in the industry. The
most rigorous "Q-Check" 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 14-50001-3041



Q.PEAK DUO BLK ML-G10+ SERIES

Mechanical Specification

Format	74.0in x 41in x 1.26in (1879mm x 1045mm x 32mm)
Weight	48.6lbs (22.0kg)
Front Cover	0.03in (0.8mm) tempered pre-stressed glass
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 x 22 monocrystalline Q-ANTUM solar half cells
Junction box	2.09 x 3.94in x 1.92 x 2.35in x 0.59 x 0.71in (53.10mm x 10.00mm x 49.05mm x 15.11mm) IP67 with bypass diodes
Cable	4mm ² Solar cable: (H) 1.82in (46.2mm) (L) 1.49in (37.9mm)
Connector	Solar MC4, IP68

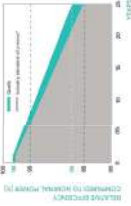
Electrical Characteristics

POWER CLASS	385	390	395	400	405	410
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS (STC) POWER TOLERANCE (+5%/-0%)						
Power at MPPT						
P _{max} [W]	385	390	395	400	405	410
I _{sc} [A]	11.04	11.07	11.10	11.14	11.17	11.20
V _{oc} [V]	45.23	45.27	45.30	45.34	45.37	45.40
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	37.39
Efficiency	η [%]	218.6	219.9	220.1	220.4	220.6

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS (NOCT)²

Power at MPPT						
P _{max} [W]	288.8	292.6	296.3	300.1	303.8	307.6
I _{sc} [A]	8.90	8.92	8.95	8.97	9.00	9.03
V _{oc} [V]	42.62	42.65	42.69	42.72	42.76	42.79
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						

Qcells PERFORMANCE WARRANTY



Guarantees of power output for the PV complete with the Qcells PV module for 25 years.

TEMPERATURE COEFFICIENTS

Temperature Coefficient of P _{max}	α [%/K]	β [%/K]	γ [%/K]	Temperature Coefficient of V _{oc}	β [%/K]	γ [%/K]
Temperature Coefficient of P _{max}	-0.54	-0.34	-0.27	Temperature Coefficient of V _{oc}	-0.27	-0.34
Nominal Module Operating Temperature						
Nominal Module Operating Temperature						

Properties for system design

Maximum System Voltage	V _{max} [V]	1000 (IEC/1000 V)	PV module classification
Maximum Series Fuse Rating	I _{sc} [A DC]	20	Fuse Rating based on ANSI/UL 6730
Max Design Load, Push/Pull ²	[lbs/ft ²]	75 (3600Pa)/15 (680Pa)	Permitted Module Temperature
Max Test Load, Push/Pull ²	[lbs/ft ²]	15 (680Pa)/4 (180Pa)	on Continuous Duty

Qualifications and Certificates

UL 6730, CE compliant,
Quality Certified PV-TÜV Rheinland,
ISO 9001:2015, ISO 14001:2015,
U.S. Patent No. 8,965,210 (solar cells).

Qcells pursues minimizing paper output in consideration of the global environment.

Qcells is a registered trademark of Qcells Solar Technologies, Ltd. Qcells Solar Technologies, Ltd. is a registered trademark of Qcells Solar Technologies, Ltd. Qcells Solar Technologies, Ltd. is a registered trademark of Qcells Solar Technologies, Ltd.



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SOLAR CONTRACTOR

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CUSTOMER INFORMATION

BARBARA JEFFERSON - MS155362
564 SE DEFENDER DR
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(386) 292-2541

PV SYSTEM INFORMATION

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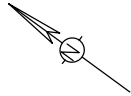
PROJECT INFORMATION

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

PANEL DETAIL

PV-1.4

SCALE: 3/32" = 1'-0"



momentum
SOLAR

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No PE86753
STATE OF FLORIDA
Professional Engineer License

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Solar Contractor
Cameron Christensen
Contractor License Number: CXC57036
Certified Solar Contractor
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REV: DATE: DESIGNER:

ROOF LAYOUT PV-2

SCALE: 3 / 32" = 1'-0"

Rafter Spacing
24" O.C. (TYP)

ELECTRICAL EQUIPMENT

FIRE SETBACK
(36" VENTILATION,
36" ROOF ACCESS)
(TYP)

GROUND ACCESS
(TYP)

CLAMPING MAX SPACING IN ZONE 1 48" O.C
AND IN ZONE 2 AND ZONE 3 48" O.C

TOTAL SQUARE FOOTAGE OF ROOF: 3198 SQFT
SQUARE FOOTAGE OF SOLAR ARRAY: 591.39 SQFT
PERCENTAGE OF SOLAR ROOF COVERAGE: 18.5%
18" RIDGE SETBACK SHALL BE REQUIRED

SOLAR CONTRACTOR
CUSTOMER INFORMATION
PV SYSTEM INFORMATION
PROJECT INFORMATION

ROOF LAYOUT PV-2

WIND PRESSURE ZONE LINES - REFER TO PW-2.2 FOR ADDITIONAL INFO

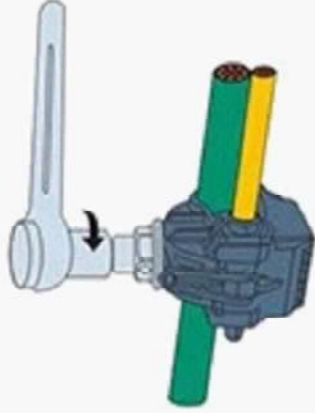
22. WORKING CLEARANCES AROUND THE EXISTING AND NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC ARTICLE 110.26.

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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.

INSTRUCTIONS FOR LINE TAPS

FIGURE 1:

1. ADJUST THE CONNECTOR NUT TO SUITABLE LOCATION
2. PUT THE BRANCH WIRE INTO THE CAP SHEATH FULLY
3. 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
4. TURN THE NUT BY HAND, AND FIX THE CONNECTOR IN SUITABLE LOCATION.
5. SCREW THE NUT WITH THE SLEEVE SPANNER.
6. SCREW THE NUT CONTINUALLY UNTIL THE TOP PART IS CRACKED AND DROPPED DOWN



PV-3.1



A circular professional engineer seal for Mima A. Makar. The outer ring contains the text "MIMA 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".

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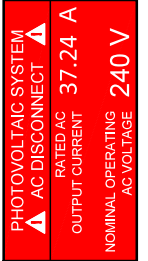
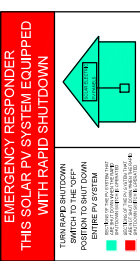
CAMERON CHRISTENSEN
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CUSTOMER INFORMATION

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TAG	LABEL		QUANTITY	LOCATION	NOTE	
○			12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'	
○			1	COMBINER BOX	1 AT ANY COMBINER BOX	
○			1	JUNCTION BOX	1 AT ANY JUNCTION BOX	
○			1	AC DISCONNECT (RSD SWITCH)	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL	
○				UTILITY METER	1 AT UTILITY METER	
○			1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT	
○			1	BACKFEED PANEL		
○			1	AC CURRENT PV MODULES		
○						



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5728 MADRID BLVD, SUITE 307, ORLANDO FL 32819

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EQUIPMENT LABELS

PV-3.2