PHOTOVOLTAIC ROOF MOUNT SYSTEM

(N) 06 + (E) 30 MODULES-ROOF MOUNTED - 13.890 kW DC, 10.440 kW AC

165 JARED DR, FUQUAY VARINA, NC 27526

PROJECT DATA

PROJECT 165 JARED DR.

ADDRESS FUQUAY VARINA, NC 27526

OWNER: MICHAEL SPERICO

DESIGNER: ESR

SCOPE:

(N) 2.340 kW DC ROOF MOUNT

SOLAR PV SYSTEM WITH

(N) 06 JINKO SOLAR: JKM390M-72HBL-V 390W

PV MODULES WITH

(N) 06 ENPHASE IQ8PLUS-72-2-US 290W MICRO INVERTERS EQUIPPED WITH RAPID

SHUTDOWN

EXISTING:

(E) 11.550 kW DC ROOF MOUNT SOLAR PV SYSTEM WITH (E) 30 MISSION SOLAR: MSE385SX5R 385W MODULES WITH (E) 30 ENPHASE IQ8PLUS-72-2-US 290W MICRO **INVERTERS EQUIPPED WITH RAPID** SHUTDOWN

AUTHORITIES HAVING JURISDICTION:

BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: DUKE ENERGY

SHEET INDEX

PV-1 **COVER SHEET** PV-2 SITE PLAN

PV-3 **ROOF PLAN & MODULES** PV-4 **ELECTRICAL PLAN** PV-5 STRUCTURAL DETAIL

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PV-8 LABELS

EQUIPMENT SPECIFICATIONS

SIGNATURE

GENERAL NOTES

- 1. ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED
- THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2017.
- THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY.
- WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING. IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT.
- HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24.
- A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.
- PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE
- 9. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS.
- 10. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE.
- ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT, ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.
- 12. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED.
- 13. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)]
- 14. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND
- 15. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
- 16. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.
- 17. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12
- 18. DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)]
- 19. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31
- 20. WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).
- 21. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH
- 22. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.

VICINITY MAP



HOUSE PHOTO



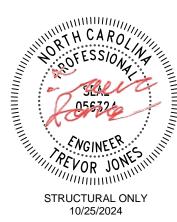
CODE REFERENCES

2018 NORTH CAROLINA BUILDING CODE 2018 NORTH CAROLINA RESIDENTIAL CODE 2018 NORTH CAROLINA FIRE CODE 2017 NATIONAL ELECTRICAL CODE

TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS					
DESCRIPTION	DATE	REV			
INITIAL DESIGN	10/25/2024				



PROJECT NAME & ADDRESS

27526

MICHAEL SPERI RESIDENCE DR, NC 165 JARED FUQUAY VARINA,

> DRAWN BY **ESR**

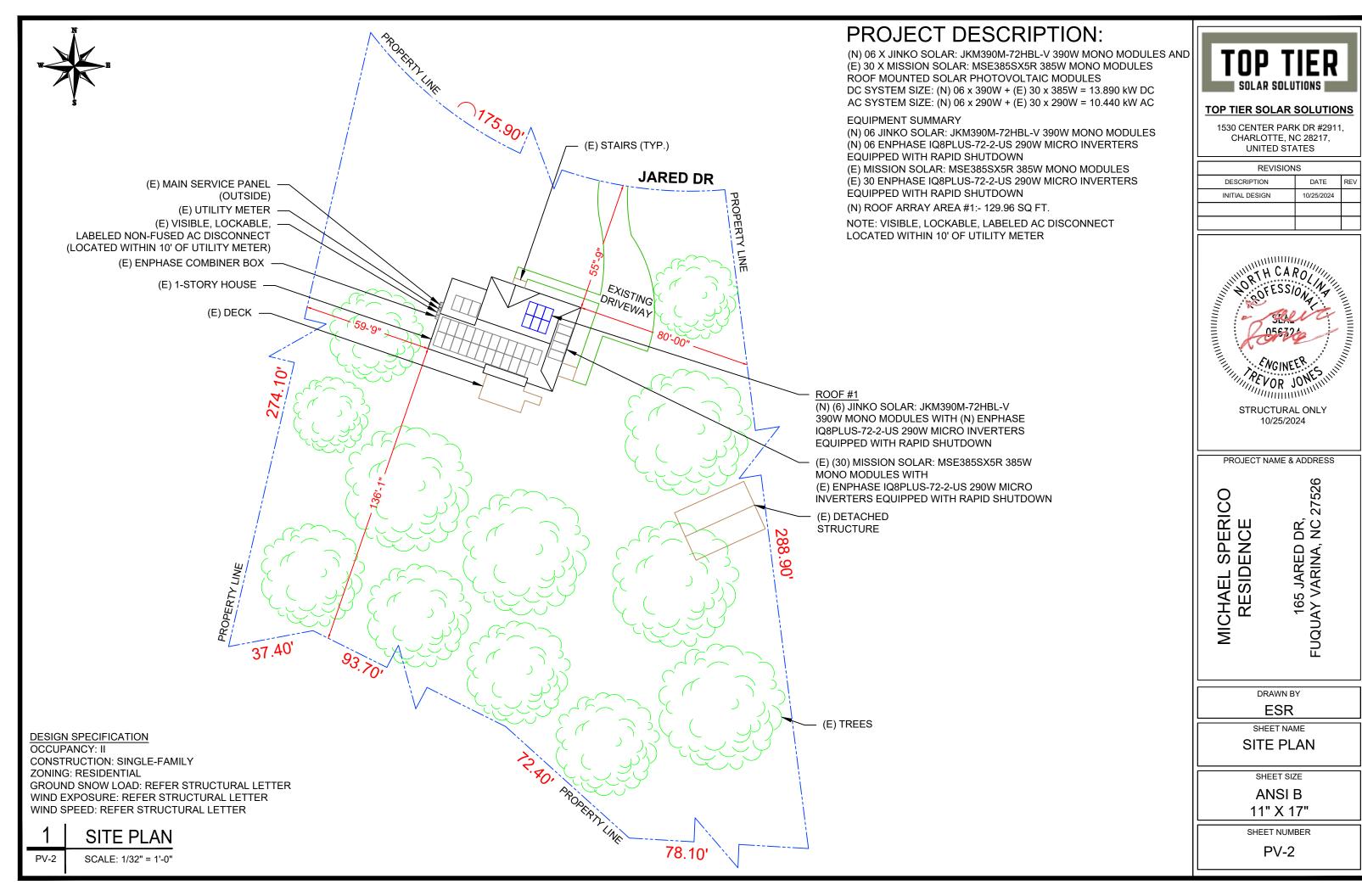
SHEET NAME

COVER SHEET

SHEET SIZE **ANSI B**

11" X 17"

SHEET NUMBER



MODULE TYPE, DIMENSIONS & WEIGHT

NUMBER OF MODULES = 06 MODULES MODULE TYPE = JINKO SOLAR: JKM390M-72HBL-V 390W MONO MODULES MODULE WEIGHT = 49.6 LBS / 22.5KG.

MODULE DIMENSIONS = 79.06" x 39.45" = 21.66 SF



	ROOF DESCRIPTION						
ROOF TYF	E	ASPHALT	SHINGLE				
ROOF LAY	ER	1 LA	YER				
ROOF	# OF MODULES	ROOF PITCH	AZIMUTH	TRUSS SIZE	TRUSS SPACING		
#1	#1 6 40° 19° 2"X4" 24"						
					212		

ARRAY AREA & ROOF AREA CALC'S

PV SYSTEM	TOTAL PV ARRAY AREA (SQ. FT.)	TOTAL ROOF AREA (Sq. Ft.)	ROOF AREA COVERED BY ARRAY (%)
NEW	129.96	1749.93	7
EXISTING	649.20	1749.93	37
TOTAL	757.50	1749.93	43

POSS322 WGINEER CONTROLLER STRUCTURAL ONLY 10/25/2024

TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

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DATE

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CHAEL SPERICO RESIDENCE MICHAEL

27526 165 JARED DR, FUQUAY VARINA, NC

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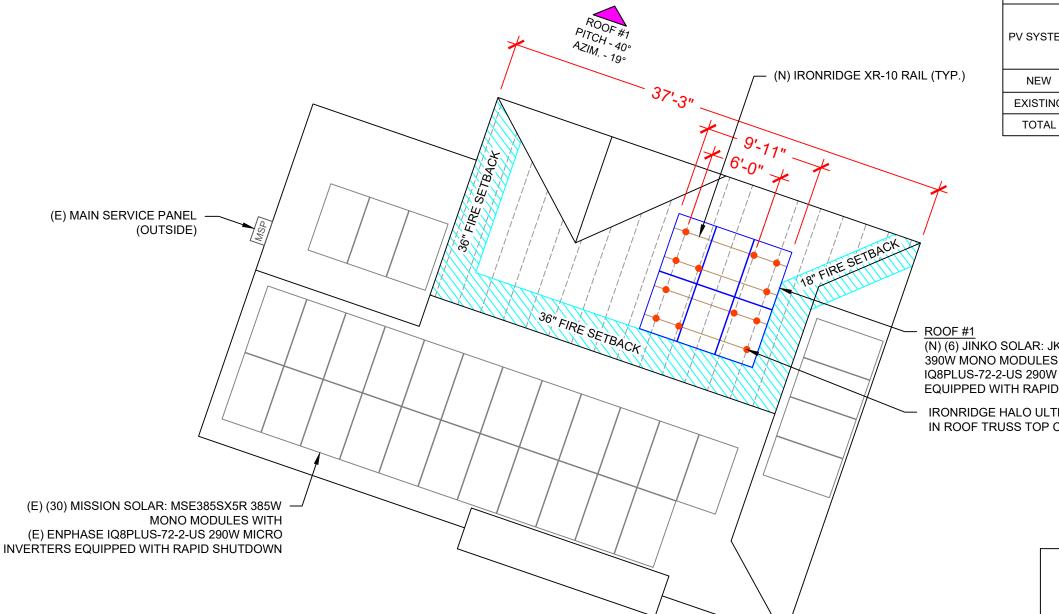
SHEET NAME **ROOF PLAN & MODULES**

> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

PV-3



(N) (6) JINKO SOLAR: JKM390M-72HBL-V 390W MONO MODULES WITH (N) ENPHASE IQ8PLUS-72-2-US 290W MICRO INVERTERS **EQUIPPED WITH RAPID SHUTDOWN** IRONRIDGE HALO ULTRAGRIP ATTACHMENTS .06"

IN ROOF TRUSS TOP CHORD ONLY

JINKO SOLAR: JKM390M-72HBL-V 390W MODULES

79.

LEGEND

- JUNCTION BOX

- COMBINER BOX

- AC DISCONNECT

- UTILITY METER

- SUBPANEL

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

- ROOF ATTACHMENT

- MAIN SERVICE PANEL

- TRUSS

MSP

- CONDUIT

ROOF PLAN & MODULES

PV-3

SCALE: 1/8" = 1'-0"

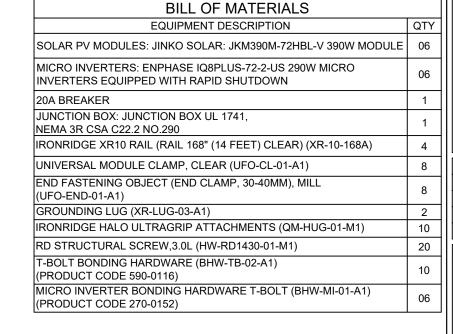
DC SYSTEM SIZE: (N) 06 x 390W + (E) 30 x 385W = 13.890 kW DC AC SYSTEM SIZE: (N) 06 x 290W + (E) 30 x 290W = 10.440 kW AC (N) 06 JINKO SOLAR: JKM390M-72HBL-V 390W MONO MODULES (N) 06 ENPHASE IQ8PLUS-72-2-US 290W MICRO INVERTERS **EQUIPPED WITH RAPID SHUTDOWN** LOCATED UNDER EACH PANEL (240V)

(E) 30 MISSION SOLAR: MSE385SX5R 385W MONO MODULES (E) 30 ENPHASE IQ8PLUS-72-2-US 290W MICRO INVERTERSWITH RAPID SHUTDOWN

SCALE: 1/8" = 1'-0"

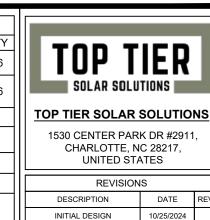
PV-4

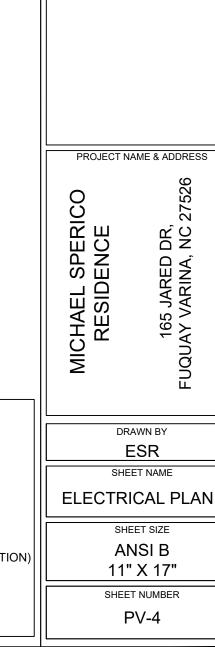
CIRCUIT LEGENDS --- (E) CIRCUIT #1 (E) CIRCUIT #2 (E) CIRCUIT #3 (N) CIRCUIT #4



- TRUSS

- CONDUIT





27526

165 JARED DR, FUQUAY VARINA, NC

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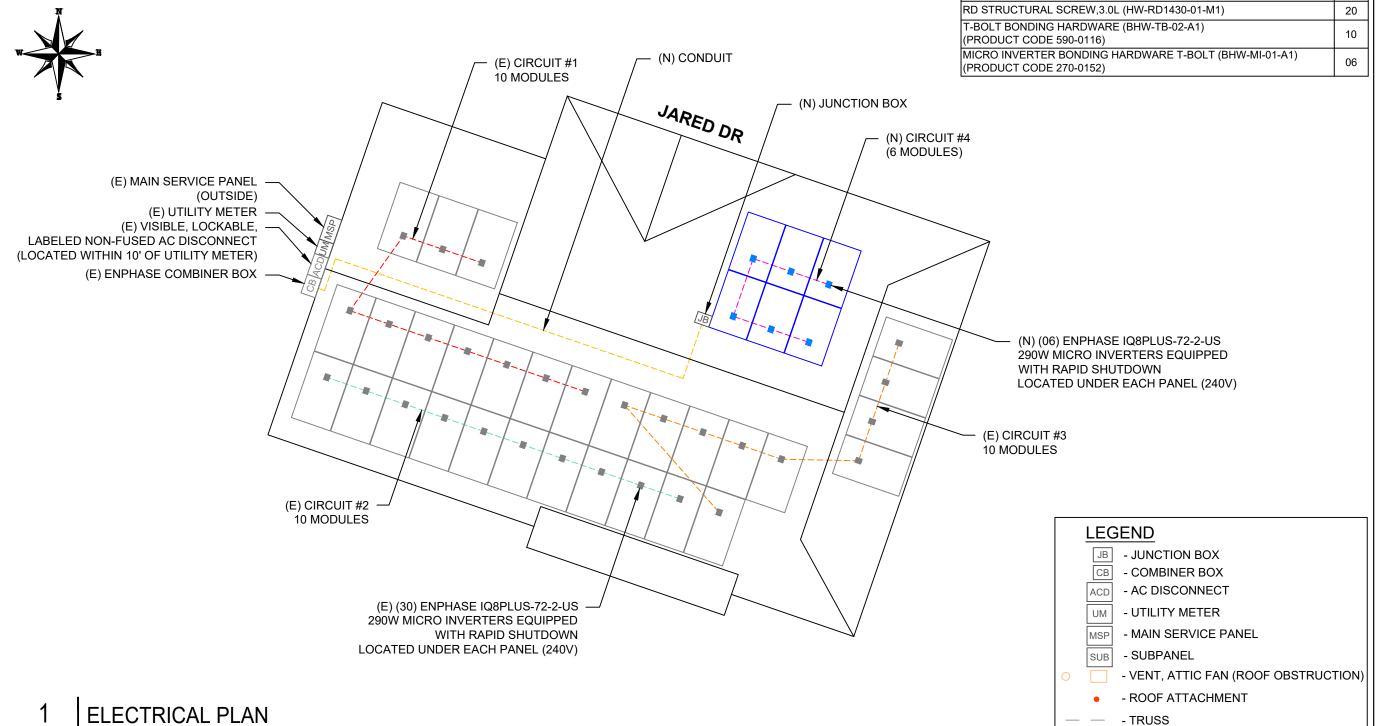
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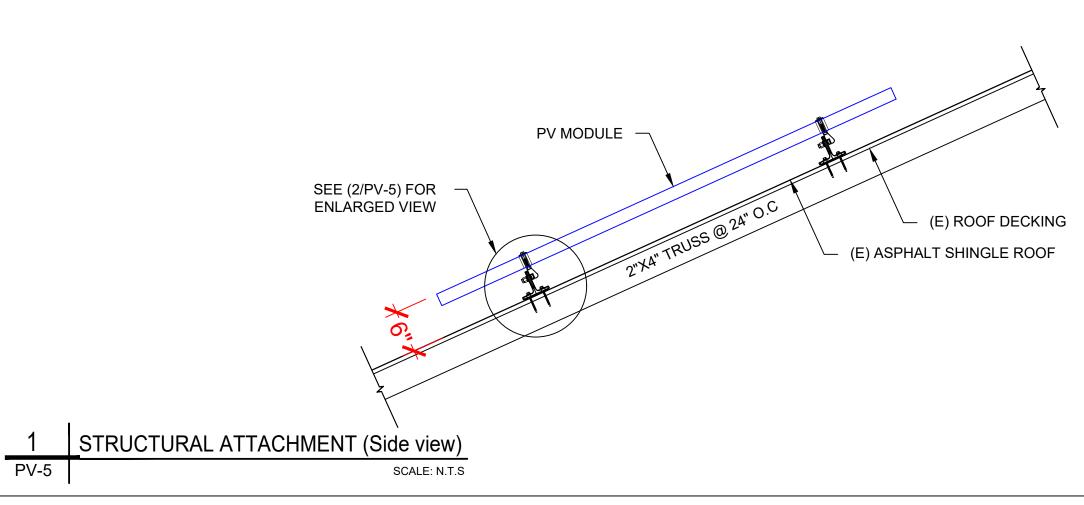
SHEET SIZE

ANSIB

11" X 17"

SHEET NUMBER



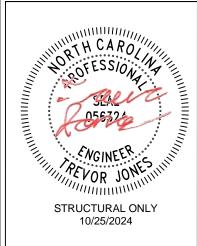


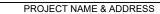


TOP TIER SOLAR SOLUTIONS

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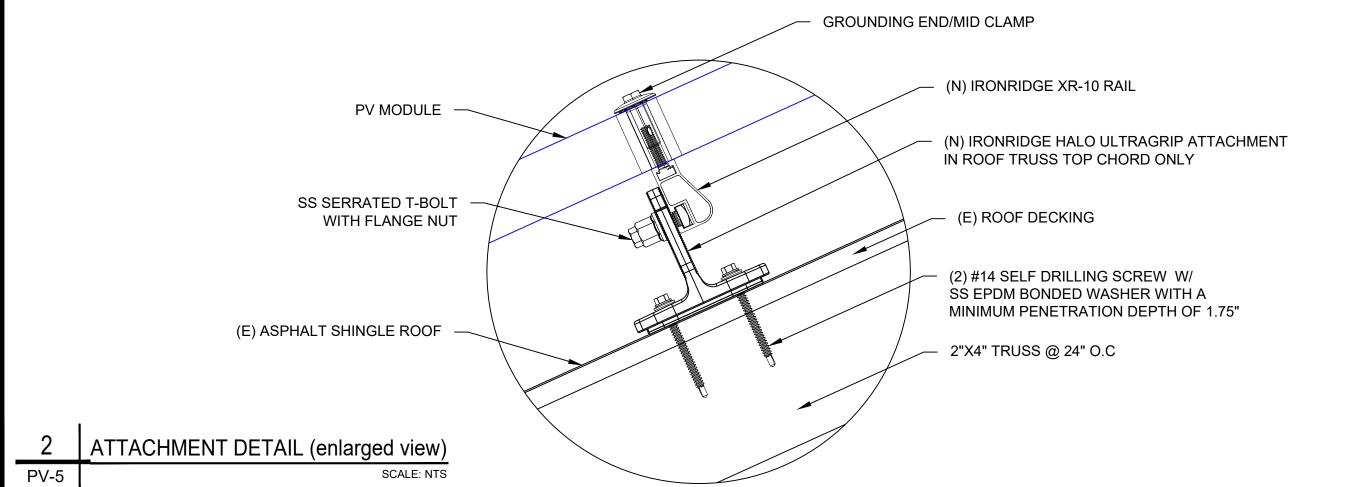
REVISIONS				
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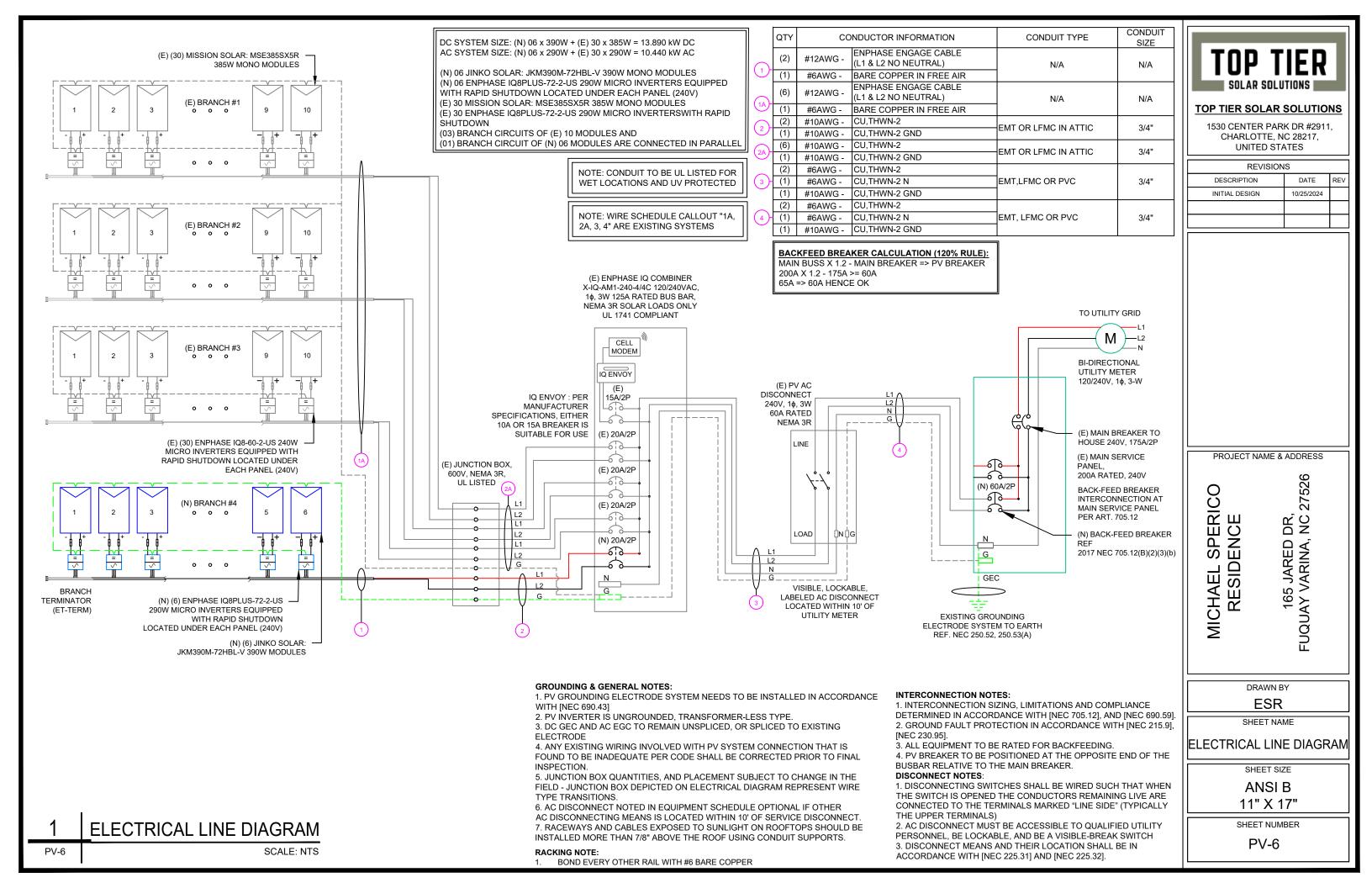




MICHAEL SPERICO RESIDENCE

165 JARED DR, FUQUAY VARINA, NC 27526 DRAWN BY **ESR** SHEET NAME STRUCTURAL DETAIL SHEET SIZE **ANSI B** 11" X 17" SHEET NUMBER PV-5





INVERTER SPECIFICATIONS							
MANUFACTURER / MODEL #	ENPHASE IQ8PLUS-72-2-US 290W MICRO INVERTERS EQUIPPED WITH RAPID SHUTDOWN						
MIN/MAX DC VOLT RATING	22V MIN/ 60V MAX						
MAX INPUT POWER	235W-440W						
NOMINAL AC VOLTAGE RATING	240V/ 211-264V						
MAX AC CURRENT	1.21A						
MAX MODULES PER CIRCUIT	13 (SINGLE PHASE)						
MAX OUTPUT POWER	290 VA						

SOLAR MODULE SPECIFICATIONS				
MANUFACTURER / MODEL #	JINKO SOLAR: JKM390M-72HBL-V 390 W MODULE			
VMP	39.64V			
IMP	9.84A			
VOC	48.60V			
ISC	10.46A			
TEMP. COEFF. VOC	-0.29%/°C			
MODULE DIMENSION	79.06"L x 39.45"W x 1.57"D (In Inch)			

AMBIEN	NT TEMPERATURE SPEC	<u>3</u>
AMBIENT TEMP (HI	GH TEMP 2%)	36°
RECORD LOW TEM	P	-11°
MODULE TEMPERA	TURE COEFFICIENT OF Voc	-0.29%/°C
PERCENT OF	NUMBER OF CURRE	NT

PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT
.80	4-6
.70	7-9
.50	10-20

	AC CALCULATIONS																					
CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTORS IN RACEWAY	90°C	DERATION FACTOR FOR AMBIENT TEMPERATURE NEC 310.15(B)(2)(a)	FOR CONDUCTORS	90°C AMPACITY DERATED (A)	AMPACITY CHECK #2	FEEDER LENGTH (FEET)	CONDUCTOR RESISTANCE (OHM/KFT)		CONDUIT SIZE	CONDUIT FILL (%)
CIRCUIT 1	JUNCTION BOX	240	12.1	15.125	20	N/A	BARE COPPER #6 AWG	CU #12 AWG	25	PASS	36	2	30	0.91	1	27.3	PASS			0.46	N/A	#N/A
CIRCUIT 2	JUNCTION BOX	240	12.1	15.125	20	N/A	BARE COPPER #6 AWG	CU #12 AWG	25	PASS	36	2	30	0.91	1	27.3	PASS			0.46	N/A	#N/A
CIRCUIT 3	JUNCTION BOX	240	12.1	15.125	20	N/A	BARE COPPER #6 AWG	CU #12 AWG	25	PASS	36	2	30	0.91	1	27.3	PASS			0.46	N/A	#N/A
CIRCUIT 4	JUNCTION BOX	240	7.26	9.075	20	N/A	BARE COPPER #6 AWG	CU #12 AWG	25	PASS	36	2	30	0.91	1	27.3	PASS			0.18	N/A	#N/A
JUNCTION BOX	COMBINER BOX	240	12.1	15.125	20	N/A	CU #10 AWG	CU #10 AWG	35	PASS	36	8	40	0.91	0.7	25.48	PASS	20	1.24	0.250	3/4" EMT	35.62852
COMBINER BOX	AC DISCONNECT	240	43.56	54.45	60	CU #6 AWG	CU #10 AWG	CU #6 AWG	65	PASS	36	2	75	0.91	1	68.25	PASS	5	0.491	0.089	3/4" EMT	32.49531
AC DISCONNECT	POI	240	43.56	54.45	60	CU #6 AWG	CU #10 AWG	CU #6 AWG	65	PASS	36	2	75	0.91	1	68.25	PASS	5	0.491	0.089	3/4" EMT	32.49531

Circuit 1 Voltage Drop	0.888
Circuit 2 Voltage Drop	0.888
Circuit 3 Voltage Drop	0.888
Circuit 4 Voltage Drop	0.608

ELECTRICAL NOTES

- 1. ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- 2. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 3. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- 4. WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- 5. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- 6. WHERE SIZES OF JUNCTION BOX, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- 7. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8. MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- 9. MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
- 10. TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.



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27526

DR, NC

165 JARED FUQUAY VARINA,

MICHAEL SPERICO RESIDENCE

DRAWN BY
ESR

SHEET NAME

WIRING CALCULATIONS

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

⚠ WARNING

ELECTRIC SHOCK HAZARD

TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION: **AC DISCONNECT** CODE REF: NEC 690.13(B)

△WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL- 2: LABEL LOCATION: UTILITY METER MAIN SERVICE PANEL SUBPANEL CODE REF: NEC 705.12(C) & NEC 690.59

↑ WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO **WORKING INSIDE PANEL**

LABEL- 3:

LABEL LOCATION: MAIN SERVICE PANEL SUBPANEL MAIN SERVICE DISCONNECT

COMBINER

CODE REF: NEC 110.27(C) & OSHA 1910.145 (f) (7)

↑ CAUTION PHOTOVOLTAIC SYSTEM CIRCUIT IS

BACKFEED

LABEL- 4: LABEL LOCATION: MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) SUBPANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 705.12(B)(3-4) & NEC 690.59

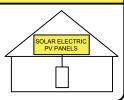


POWER SOURCE OUTPUT CONNECTION. DO NOT **RELOCATE THIS** OVERCURRENT DEVICE

LABEL- 5:
LABEL LOCATION:
MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) SUBPANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 705.12(B)(3)(2)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY



LABEL- 6: LABEL LOCATION: AC DISCONNECT CODE REF: [NEC 690.56(C)(1)(A)]

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL - 7: LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.56(C)(2)

PHOTOVOLTAIC

AC DISCONNECT

LABEL- 8: LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.13(B)

PHOTOVOLTAIC AC DISCONNECT

IOMINAL OPERATING AC VOLATGE

240 V

RATED AC OUTPUT CURRENT

43.56 A

LABEL LOCATION:
MAIN SERVICE PANEL SUBPANEL AC DISCONNECT CODE REF: NEC 690.54

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

LABEL LOCATION:

MAIN SERVICE DISCONNECT (ONLY IF MAIN SERVICE DISCONNECT IS PRESENT)

CODE REF: NEC 690.13(B)



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27526 CHAEL SPERICO RESIDENCE DR, NC 165 JARED FUQUAY VARINA, MICHAEL

PROJECT NAME & ADDRESS

DRAWN BY **ESR**

SHEET NAME

LABELS

SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER



EAGLE CONTINENTAL

380-400 WATT • MONO PERC HALF-CELL MODULE

Positive power tolerance of 0~+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Top performance in the strictest 3rd party labs
- · Automated manufacturing utilizing artificial intelligence
- · Vertically integrated, tight controls on quality
- · Premium solar module factory in Jacksonville, Florida

KEY FEATURES



Superior Aesthetics

Black backsheet and black frame create ideal look for residential applications.



Diamond Half-Cell Technology

World-record breaking efficient mono PERC half-cells deliver high power in a small footprint.



Thick and Tough

Fire Type 1 rated module engineered with a thick frame, 3.2mm front side glass, and thick backsheet for added durability.



Twin array design allows continued performance even with shading by trees or debris.



Protected Against All Environments

BACKSHEET

Certified to withstand humidity, heat, rain, marine environments, wind, hailstorms, and packed snow.

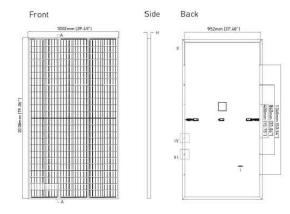


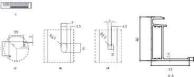
12-year product and 25-year linear power warranty.



- ISO9001:2008 Quality Standards
- ISO14001:2004 Environmental Standards
- IEC61215, IEC61730 certification pending
- · ISO 45001 2018 Occupational Health & Safety Standards
- · UL1703/61730 certification pending

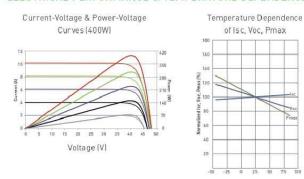
ENGINEERING DRAWINGS





Length: ± 2mm Width: ± 2mm Height: ± 1mm Row Pitch: ± 2mm

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



MECHANICAL CHARACTERISTICS

Cells	Mono PERC Diamond Cell (158.75 x 158.75mm)
No. of Half Cells	144 (6 x 24)
Dimensions	20 08 x 10 02 x 40mm (79.06 x 39.45 x 1.57in)
Weight	22.5kg (49.6lbs)
Front Glass	3.2mm, Anti-Reflection Coating High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Output Cables	12 AWG, 1400 mm (55.12in)
Connector	Staubli MC4 Series
Fire Type	Type 1
Pressure Rating	5400Pa (Snow) & 2400Pa (Wind)
Hailstone Test	50 mm Hailstones at 35m/s

TEMPERATURE CHARACTERISTICS

Temperature Coefficients of Pmax	-0.35%/°C
Temperature Coefficients of Voc	-0.29%/°C
Temperature Coefficients of Isc	0.048%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

MAXIMUM RATINGS

Operating Temperature (°C)	-40°C-+85°C
Maximum System Voltage	1500VDC (UL and IEC)
Maximum Series Fuse Rating	20A

PACKAGING CONFIGURATION

(Two pallets = One stack)

27pcs/pallet, 54pcs/stack, 594pcs/40'HQ Container

WARRANTY

12-year product and 25-year linear power warranty

1st year degradation not to exceed 2.5%, each subsequent year not to exceed 0.6%, minimum power at year 25 is 83.1% or greater.

ELECTRICAL CHARACTERISTICS

Module Type	JKM380M	-72HBL-V	JKM385M	I-72HBL-V	JKM390M	-72HBL-V	JKM395N	1-72HBL-V	JKM4001	M-72HBL-V
	STC	NOCT	STC	NOCT	SCT	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	380Wp	279Wp	385Wp	283Wp	390Wp	287Wp	395Wp	291Wp	400Wp	294Wp
Maximum Power Voltage (Vmp)	39.10V	36.5V	39.37V	36.8V	39.64V	37.0V	39.90V	37.4V	40.16V	37.6V
Maximum Power Current (Imp)	9.72A	7.67A	9.78A	7.71A	9.84A	7.75A	9.90A	7.77A	9.96A	7.82A
Open-circuit Voltage (Voc)	48.2V	45.4V	48.4V	45.6V	48.6V	45.8V	48.8V	46.0V	49.1V	46.2V
Short-circuit Current (lsc)	10.30A	8.32A	10.38A	8.38A	10.46A	8.45A	10.54A	8.51A	10.61A	8.57A
Module Efficiency STC (%)	18.8	19%	19.	14%	19.3	38%	19.	63%	19.	88%

*STC: - Irradiance 1000W/m2 NOCT: Irradiance 800W/m2

*Power measurement tolerance: ±3%

Cell Temperature 25°C Ambient Temperature 20°C

AM = 1.5 AM = 1.5

Wind Speed 1m/s

The company reserves the final right for explanation on any of the information presented hereby. JKM380-400M-72HBL-V-D1-US

BUILDING YOUR TRUST IN SOLAR. WWW.JINKOSOLAR.US



TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS						
DESCRIPTION	DATE	REV				
INITIAL DESIGN	10/25/2024					

PROJECT NAME & ADDRESS

MICHAEL SPERICO RESIDENCE

165 JARED DR, FUQUAY VARINA, NC 27526

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-9

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CERTIFICATE OF COMPLIANCE

Certificate Number E362479

Report Reference E362479-20200410

Date 2023-July-16

Issued to: JINKO SOLAR CO LTD

No.1, Yingbin Road, Economic Development Zone

Shangrao Jiangxi Sheng 334100 CN

This is to certify that representative samples of

PHOTOVOLTAIC MODULES AND PANELS WITH SYSTEM VOLTAGE RATINGS OVER 600 VOLTS

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 61730-1 - Standard for Photovoltaic (PV) Module Safety

Qualification - Part 1: Requirements for Construction, Edition 2, Issue Date 10/28/2022 and UL 61730-2, Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing, Edition 2, Revision Date 04/25/2023 and CSA C22.2 No. 61730-1:19 December 2019, Photovoltaic (PV) module safety qualification — Part 1: Requirements for construction and CSA C22.2 No. 61730-2:19 December 2019, Photovoltaic (PV) module safety qualification — Part 2: Requirements for testing.

Additional Information: See the UL Online Certifications Directory at

https://ig.ulprospector.com for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Other Jenning Come

Deborah Jennings-Conner, VP Regulatory Services

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JKM525N-72HL4-V, JKM530N-72HL4-V, JKM535N-72HL4-V, JKM540N-72HL4-V, JKM545N-72HL4-V, JKM550N-72HL4-V, JKM555N-72HL4-V, JKM560N-72HL4-V, JKM565N-72HL4-V, JKM570N-72HL4-V, JKM575N-72HL4-V.

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Deborah Jennings-Conner, VP Regulatory Services

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SPECIFICATION

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IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC), which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built using advanced 55-nm technology with high-speed digital logic and has superfast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the IQ Battery, IQ Gateway, and the Enphase App monitoring and analysis



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-and-play MC4 connectors.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



IQ8 Series Microinverters are UL Listed as PV rapid shutdown equipment and conform with various regulations, when installed according to the manufacturer's instructions.

- *Meets UL 1741 only when installed with IQ System Controller 2 or 3. **IQ8 and IQ8+ support split-phase, 240 V installations only
- $@\ 2024\ Enphase\ Energy.\ All\ rights\ reserved.\ Enphase, the\ e\ and\ CC\ logos, IQ, and\ certain\ other\ marks\ listed\ at$ $\underline{\text{https://enphase.com/trademark-usage-guidelines}} \text{ are trademarks of Enphase Energy, Inc. in the U.S. and other countries.}$ Data subject to change.

- · Lightweight and compact with plug-and-play
- · Power line communication (PLC) between components
- · Faster installation with simple two-wire cabling

High productivity and reliability

- · Produce power even when the grid is down*
- · More than one million cumulative hours of
- · Class II double-insulated enclosure
- · Optimized for the latest high-powered PV modules

Microgrid-forming

- · Compliant with the latest advanced grid support**
- · Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid
- · Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB)

- · IQ8 Microinverters cannot be mixed with previous generations of Enphase microinverters (IQ7 Series, IQ6 Series, and so on) in the same system.
- IQ Microinverters ship with default settings that meet North America's IEEE 1547 interconnection standard requirements. Region-specific adjustments may be requested by an Authority Having Jurisdiction (AHJ) or utility representative according to the IEEE 1547 interconnection standard. An IQ Gateway is required to make these changes during installation.

IQ8SP-12A-DSH-00207-3.0-EN-US-2024-02-12

IQ8 and IQ8+ Microinverters

INPUT DATA (DC)	UNITS	108-60-2-U\$	IQ8PLUS-72-2-US		
Commonly used module pairings ¹	W	235–350	235-440		
Module compatibility	-	To meet compatibility, PV modules must be within maximum i Module compatibility can be checked at https://enpl			
MPPT voltage range	٧	27-37	27-45		
Operating range	٧	16-48	16-58		
Minimum/Maximum start voltage	٧	22/48	22/58		
Maximum input DC voltage	٧	50	60		
Maximum continuous input DC current	Α	10	12		
Maximum input DC short-circuit current	А	25			
Maximum module (I _{sc})	А	20			
Overvoltage class DC port	_	II			
DC port backfeed current	mA	0			
PV array configuration	_	Ungrounded array; no additional DC side protection required; AC	side protection requires maximum 20 A per branch circui		
OUTPUT DATA (AC)	UNITS	108-60-2-US	IQ8PLUS-72-2-US		
Peak output power	VA	245	300		
Maximum continuous output power	VA	240	290		
Nominal grid voltage (L-L)	٧	240, split-phase	(L-L), 180°		
Minimum and Maximum grid voltage ²	V	211-264	4		
Maximum continuous output current	А	1.0	1.21		
Nominal frequency	Hz	60			
Extended frequency range	Hz	47-68			
AC short-circuit fault current over three cycles	Arms	2			
Maximum units per 20 A (L-L) branch circuit ³	-	16	13		
Total harmonic distortion	%	<5			
Overvoltage class AC port	-	III			
AC port backfeed current	mA	30			
Power factor setting	_	1.0			
Grid-tied power factor (adjustable)	-	0.85 leading 0.	.85 lagging		
Peak efficiency	%	97.7			
CEC weighted efficiency	%	97			
Nighttime power consumption	mW	23	25		
MECHANICAL DATA					
Ambient temperature range		-40°C to 60°C (-46	0°F to 140°F)		
Relative humidity range		4% to 100% (co	ndensing)		
DC connector type		MC4			
Dimensions (H × W × D)		212 mm (8.3 in) × 175 mm (6.9 in) × 30.2 mm (1.2 in)			
Weight		1.08 kg (2.3	8 lbs)		
Cooling		Natural convection	on-no fans		
Approved for wet locations		Yes			
Pollution degree		PD3			
Enclosure		Class II double-insulated, corrosion-	resistant polymeric enclosure		
Environmental category/UV exposure ratin	g	NEMA Type 6/9	Outdoor		

(1) No enforced DC/AC ratio.
(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.

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27526 DR, NC 165 JARED FUQUAY VARINA,

DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

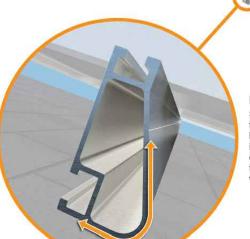


XR Rail® Family

Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

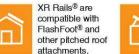
XR Rails® are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails® is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Corrosion-Resistant Materials



Compatible with Flat & Pitched Roofs



IronRidge® offers a range of tilt leg options for flat roof mounting applications.

All XR Rails® are made of 6000-series

aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.



XR Rail® Family

The XR Rail® Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail® to match.



XR10

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves spans up to 6 feet, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear & black anodized finish
- Internal splices available



XR100

XR100 is a residential and commercial mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 10 feet.

- · 10' spanning capability
- · Heavy load capability
- · Clear & black anodized finish · Internal splices available



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans up to 12 feet for commercial applications.

- · 12' spanning capability
- · Extreme load capability · Clear anodized finish
- · Internal splices available

Rail Selection

The table below was prepared in compliance with applicable engineering codes and standards.* Values are based on the following criteria: ASCE 7-16, Gable Roof Flush Mount, Roof Zones 1 & 2e, Exposure B, Roof Slope of 8 to 20 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed certification letters.

Lo	ad			Rail	Span		
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'
	90						
Nama	120						
None	140	XR10		XR100		XR1000	
	160						
	90						
20	120						
20	140						
	160						
30	90						
30	160						
40	90						
40	160						
80	160						
120	160						

*Table is meant to be a simplified span chart for conveying general rail capabilities. Use approved certification letters for actual design guidance.



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UFO® Family of Components

Simplified Grounding for Every Application

The UFO® family of components eliminates the need for separate grounding hardware by bonding solar modules directly to IronRidge® XR Rails®. All system types that feature the UFO® family-Flush Mount®, Tilt Mount® and Ground Mount®-are fully listed to the UL 2703 standard.

UFO® hardware forms secure electrical bonds with both the module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations.

Only for installation and use with IronRidge products in accord with written instructions. See IronRidge.com/UFO



The Stopper Sleeve snaps onto the UFO®, converting it

Universal Fastening Object (UFO®)

The UFO® securely bonds solar modules to XR Rails®. It comes assembled and lubricated, and can fit a wide range of module heights.

BOSS® Splice

Bonded Structural Splice connects rails with built-in bonding teeth. No tools or



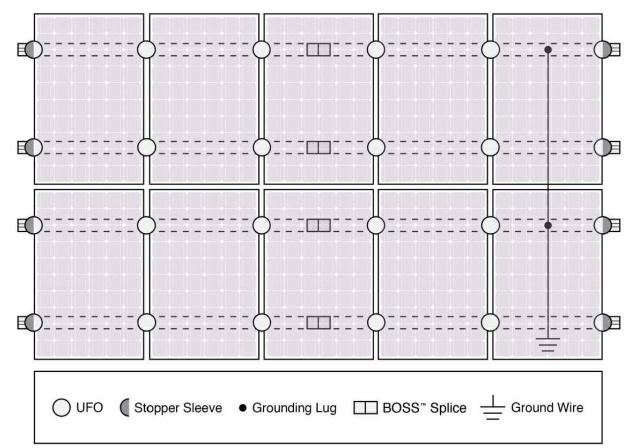
Grounding Lug

A single Grounding Lug connects an entire row of PV modules to the grounding conductor.

Bonded Attachments

The bonding bolt attaches and bonds the L-foot® to the rail. It is installed with the same socket as the rest of the

System Diagram



Approved Enphase microinverters can provide equipment grounding of IronRidge systems, eliminating the need for grounding lugs and field installed equipment ground conductors (EGC). A minimum of two microinverters mounted to the same rail and connected to the same Engage cable is required. Refer to installation manuals for additional details.

UL Certification

The IronRidge® Flush Mount®, Tilt Mount®, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

UL 2703 is the standard for evaluating solar mounting systems. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

Go to IronRidge.com/UFO

Cross-System Compatibility						
Feature	Flush Mount	Tilt Mount	Ground Mount			
XR Rails [®]	~	· •	XR100 & XR1000			
UFO®/Stopper	•	· · ·				
BOSS® Splice	✓ ✓ N/A					
Grounding Lugs	1 per Row	1 per Row	1 per Array			
Microinverters & Power Optimizers	Compatible with most MLPE manufacturers. Refer to system installation manual.					
Fire Rating	Class A Class A N/A					
Modules	Tested or Evaluated with over 400 Framed Modules Refer to installation manuals for a detailed list.					

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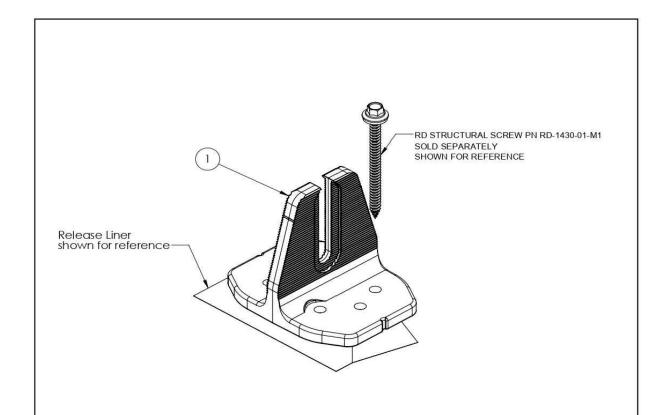
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QuickMount® Halo UltraGrip



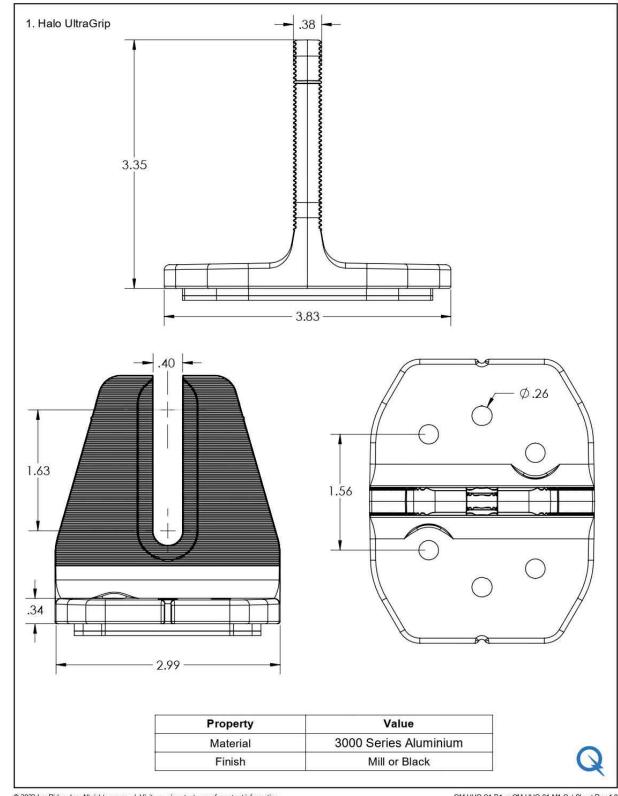
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1	QM Halo UltraGrip(Mill or Black)	1

PART NUMBER	DESCRIPTION
QM-HUG-01-M1	Halo UltraGrip - Mill
QM-HUG-01-B1	Halo UltraGrip - Black



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QM-HUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0



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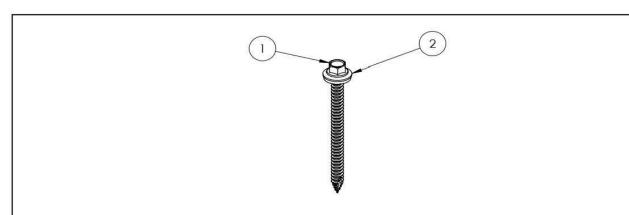
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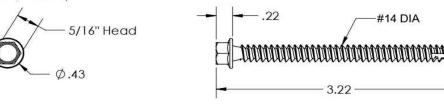
QuickMount® RD Structural Screw



ITEM NO	DESCRIPTION	QTY IN KIT
1	Self Drilling Screw, #14, Wood Tip	1
2	Washer, EPDM Backed	1

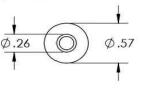
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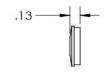
1. Self Drilling Screw, #14, Wood Tip



Property	Value	
Material	300 Series Stainless Steel	
Finish	Clear	

2. Washer, EPDM Backed





Property	Value
Material	300 Series Stainless Steel
Finish	Clear



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QM-RD-1430-01-M1 Cut Sheet Rev 1.0



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PHONE: 385-202-4150 WWW.EZSOLARPRODUCTS.COM

REV



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ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	JB-1.2 BODY	POLYCARBONATE WITH UV INHIBITORS	1
2	JB-1.2 LID	POLYCARBONATE WITH UV INHIBITORS	1
3	#10 X 1-1/4" PHILLIPS PAN HEAD SCREW		6
4	#8 X 3/4" PHILLIPS PAN HEAD SCREW		6

15-20 LBS
UL 1741, NEMA 3R CSA C22.2 NO. 290
1.45 LBS

JB-1.2

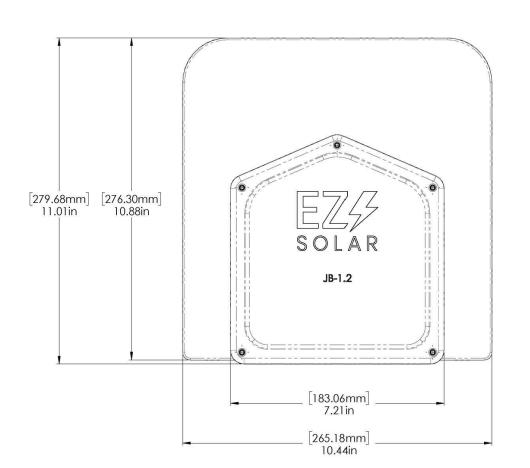
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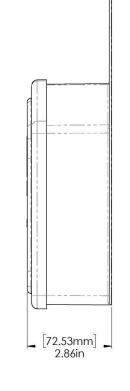
SIZE

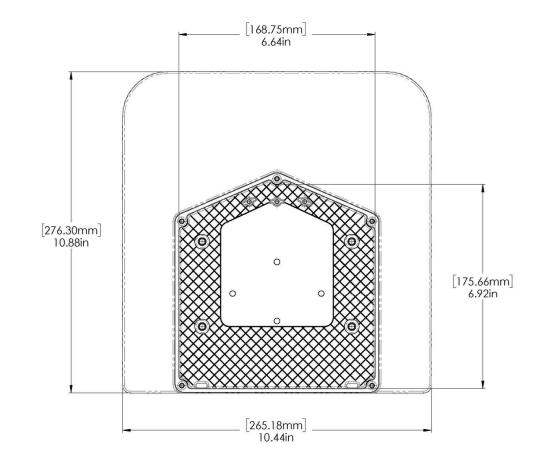
B

SCALE: 1:2

DWG. NO.









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