PHOTOVOLTAIC ROOF MOUNT SYSTEM CONTINUED TO SYSTEM OF THE PROPERTY OF THE PROP

12 MODULES-ROOF MOUNTED - 4.620 KW DC, 3.927 KW AC 340 SW CALLAWAY DR, LAKE CITY, FL 32024



SUNERGY SOLAR LLC

7625 LITTLE RD. SUITE 200A. NEW PORT RICHEY, FL 34654

REVISION	IS	
DESCRIPTION	DATE	REV
INITIAL DESIGN	11/10/2023	
REVISION	01/04/2023	Α

Richard Pantel



Reviewed and approved Richard Pantel, P.E. FL Lic. No. 73222 1/4/2024

PROJECT NAME & ADDRESS

RESIDENCE

/ CALLAWAY DR CITY, FL 32024

DRAWN BY **ESR**

SHEET NAME

COVER SHEET

SHEET SIZE **ANSI B**

11" X 17"

SHEET NUMBER

G001

GENERAL NOTES

- ALL COMPONENTS ARE UL LISTED AND NEC CERTIFIED, WHERE WARRANTED
- THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2020.
- 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 NEC 2020 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.
- 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.
- 11. ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE 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
- 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 UL1703 FLORIDA RESIDENTIAL CODE, 8TH EDITION 2023 (FRC)
- 22. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.
- 23. IN ACCORDANCE WITH 2021 IFC 1205.5, 2018 IFC 1204.4, AND 2015 IFC 605.11.2 A CLEAR, BRUSH-FREE AREA OF 10 FEET(3048 MM) SHALL BE REQUIRED FOR GROUND-MOUNTED PHOTOVOLTAIC ARRAYS.
- 24. PANEL LAYOUT ORIENTATION IS SUBJECT TO CHANGE ON DESIGNED MOUNTING PLANES
- 25. ALL PERMANENTLY INSTALLED LUMINARIES. EXCLUDING THOSE IN KITCHEN APPLIANCES. SHALL HAVE AN EFFICIENCY OF AT LEAST 45 LUMENS-PER-WATT OR SHALL UTILIZE LAMPS WITH AN EFFICIENCY OF NOT LESS THAN 65 LUMENS-PER-WATT.
- 26. MOUNTING SYSTEMS SHALL BE LISTED AND LABELLED IN ACCORDANCE WITH UL 2703 TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THEIR LISTINGS.

340 SW Callaway Dr Lake City, FL 32024, United States

HOUSE PHOTO

VICINITY MAP

Lake City



CODE REFERENCES

PROJECT TO COMPLY WITH THE FOLLOWING:

FLORIDA PLUMBING CODE, 8TH EDITION 2023 (FPC) FLORIDA BUILDING CODE, 8TH EDITION 2023 EDITION (FBC) FLORIDA MECHANICAL CODE, 8TH EDITION 2023 (FMC) 2020 NATIONAL ELECTRICAL CODE FLORIDA FIRE PREVENTION CODE, 8TH EDITION 2023

SHEET INDEX **COVER SHEET**

PROJECT

ADDRESS

OWNER:

DESIGNER:

E001 SITE PLAN S001 **ROOF PLAN AND MODULES**

E002 **ELECTRICAL PLAN** S002 STRUCTURAL DETAIL E003 **ELECTRICAL LINE DIAGRAM**

PROJECT DATA

LAKE CITY, FL 32024

WILLIAM KUNZLER

SOLAR PV SYSTEM WITH

SOLAR PV SYSTEM WITH

400W PV MODULES WITH

15 ENPHASE IQ8PLUS-72-2-US

12 ENPHASE IQ8PLUS-72-2-US

FSR

SCOPE: 4.620 KW DC ROOF MOUNT

PV MODULES WITH

MICROINVERTERS

MICROINVERTERS

AUTHORITIES HAVING JURISDICTION:

UTILITY: CLAY ELECTRIC COOPERATIVE

BUILDING: COLUMBIA COUNTY

ZONING: COLUMBIA COUNTY

EXISTING: 6.000 KW DC ROOF MOUNT

340 SW CALLAWAY DR,

12 MISSION SOLAR MSE385SX5R 385W

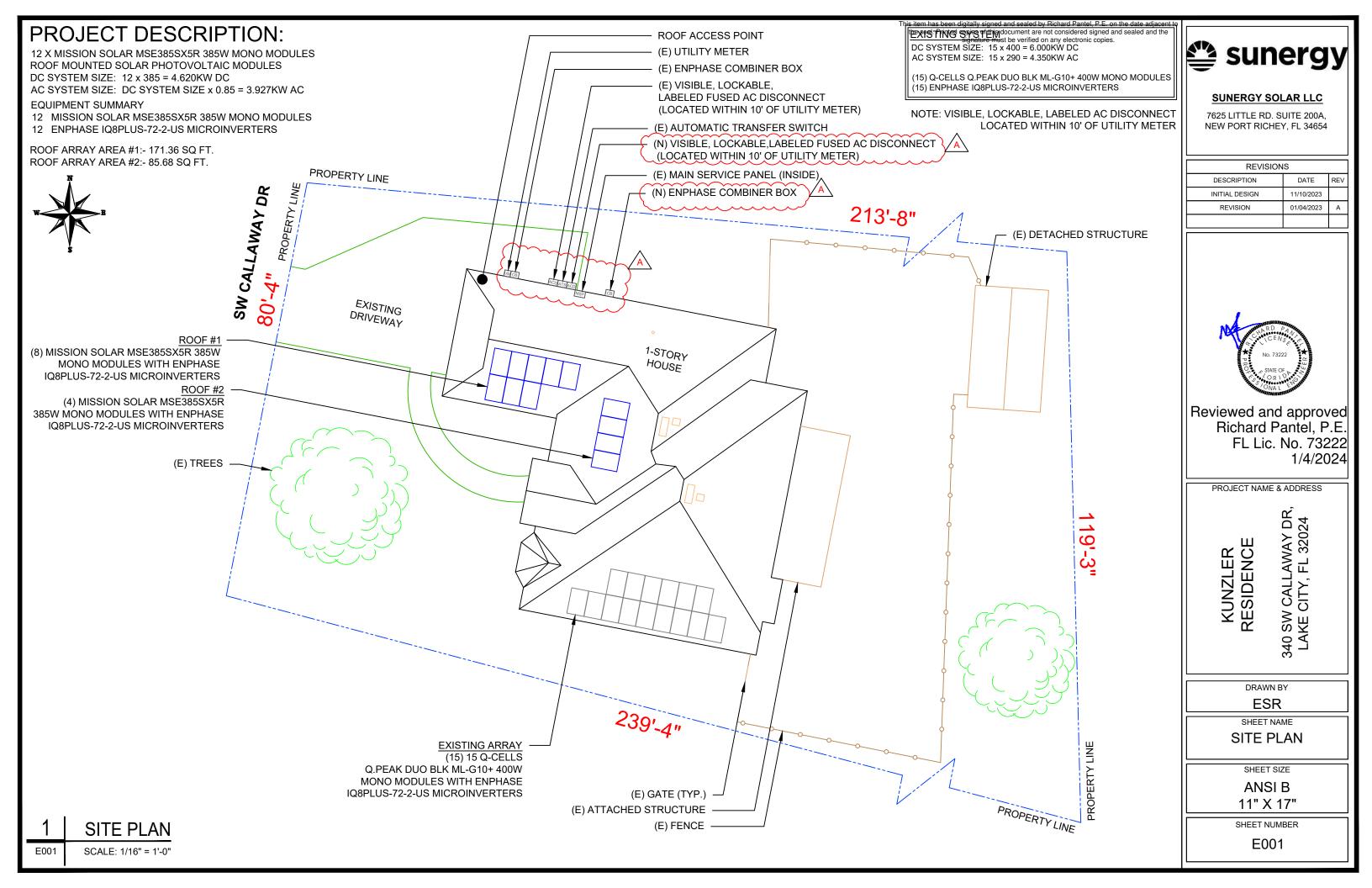
15 Q-CELLS Q.PEAK DUO BLK ML-G10+

E004 WIRING CALCULATIONS E005 LABELS

E006 PLACARD

EQUIPMENT SPECIFICATIONS PD001+

SIGNATURE



MODULE TYPE, DIMENSIONS & WEIGHT

MODULE TYPE = MISSION SOLAR MSE385SX5R 385W MONO MODULES MODULE WEIGHT = 49.0 LBS / 22.2KG.



the seal. Printed consists of this document are not sometimed signed and sealed and the ROOF TYPE ASPHALT SHINGLE TRUSS TRUSS # OF ROOF AZIMUTH **ROOF** MODULES PITCH SIZE **SPACING** #1 8 34° 191° 2"X4" 24" #2 34° 281° 2"X4" 24" 4

ARRAY AREA & ROOF AREA CALC'S								
TOTAL PV ARRAY AREA (SQ. FT.)	AREA AREA COVERED BY							
573.84	3653.89	16						

ACTUAL MAXIMUM CANTILEVER ALLOWED = L/3, WHERE L IS THE ATTACHMENT SPACING ATTACHMENT SPACING, L = 48" ACTUAL MAXIMUM CANTILEVER ALLOWED = 48/3 ACTUAL MAXIMUM CANTILEVER ALLOWED = 16",i.e, 1'-4"



SUNERGY SOLAR LLC

7625 LITTLE RD. SUITE 200A, NEW PORT RICHEY, FL 34654

		-	
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PROJECT NAME & ADDRESS

RESIDENCE

340 SW CALLAWAY DR. LAKE CITY, FL 32024

DRAWN BY **ESR**

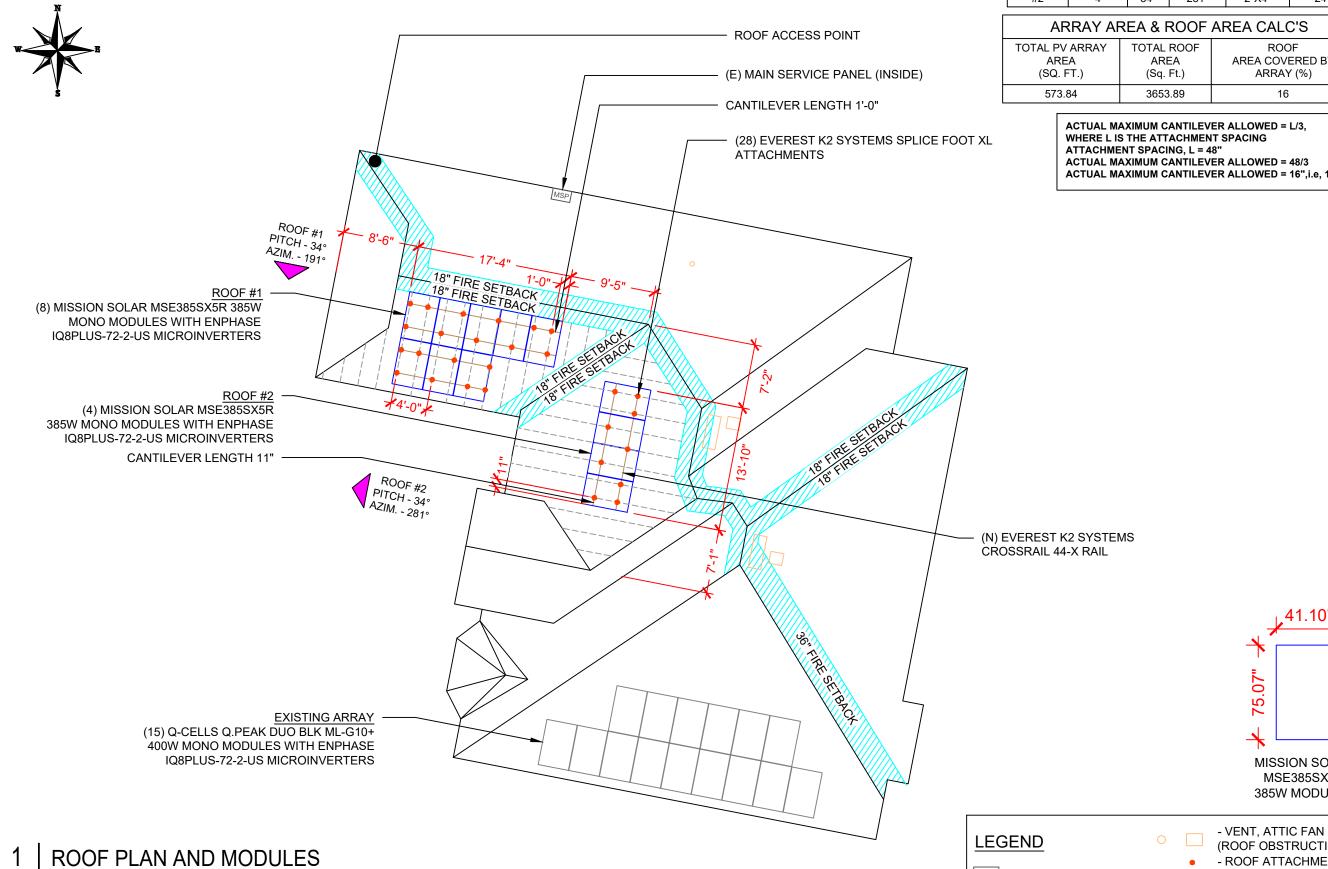
SHEET NAME **ROOF PLAN AND MODULES**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

S001



07 5

MISSION SOLAR MSE385SX5R 385W MODULES

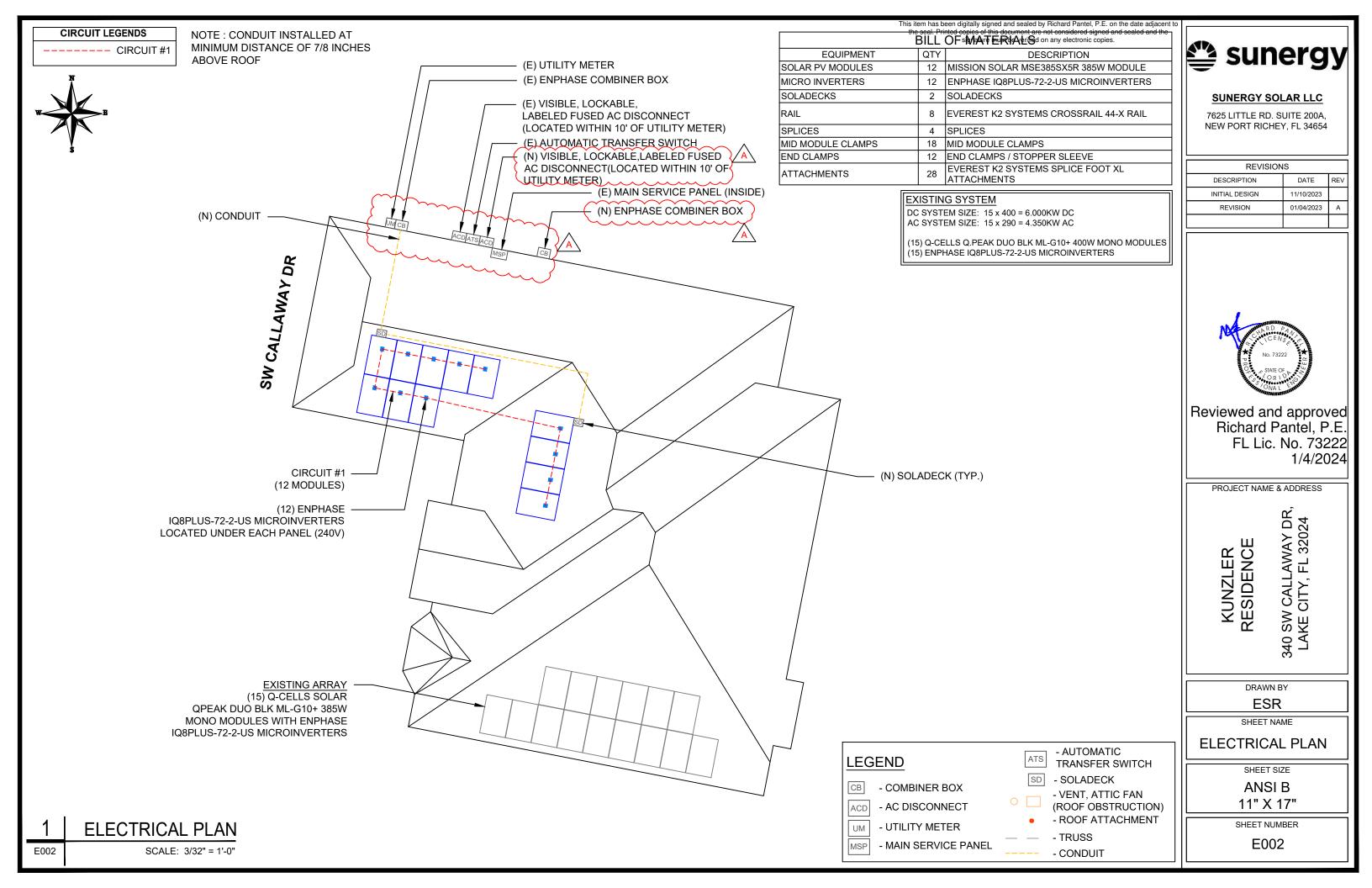
(ROOF OBSTRUCTION) - ROOF ATTACHMENT

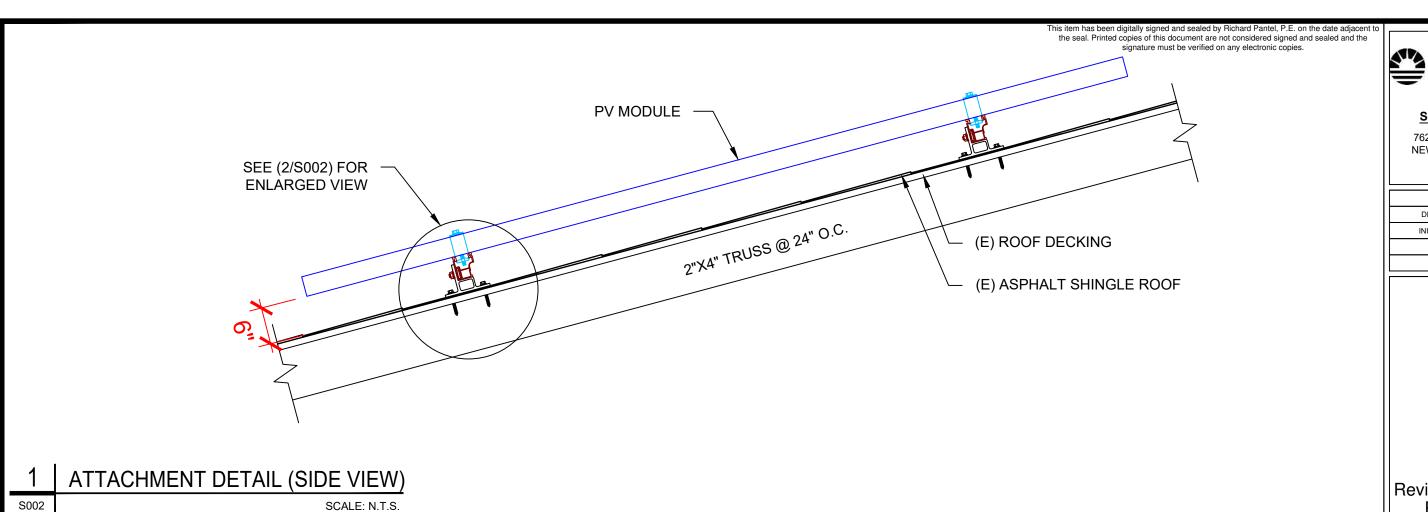
- - TRUSS

- MAIN SERVICE PANEL

S001

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







SUNERGY SOLAR LLC

7625 LITTLE RD. SUITE 200A, NEW PORT RICHEY, FL 34654

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			ı	



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PROJECT NAME & ADDRESS

KUNZLER RESIDENCE 340 SW CALLAWAY DR, LAKE CITY, FL 32024

DRAWN BY

SHEET NAME

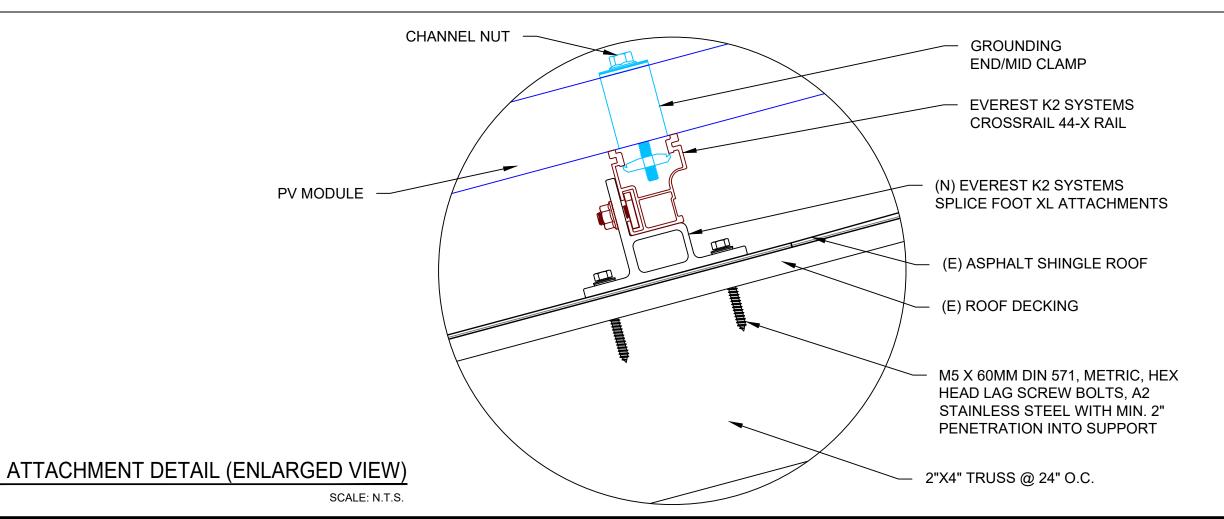
STRUCTURAL DETAIL

SHEET SIZE ANSI B

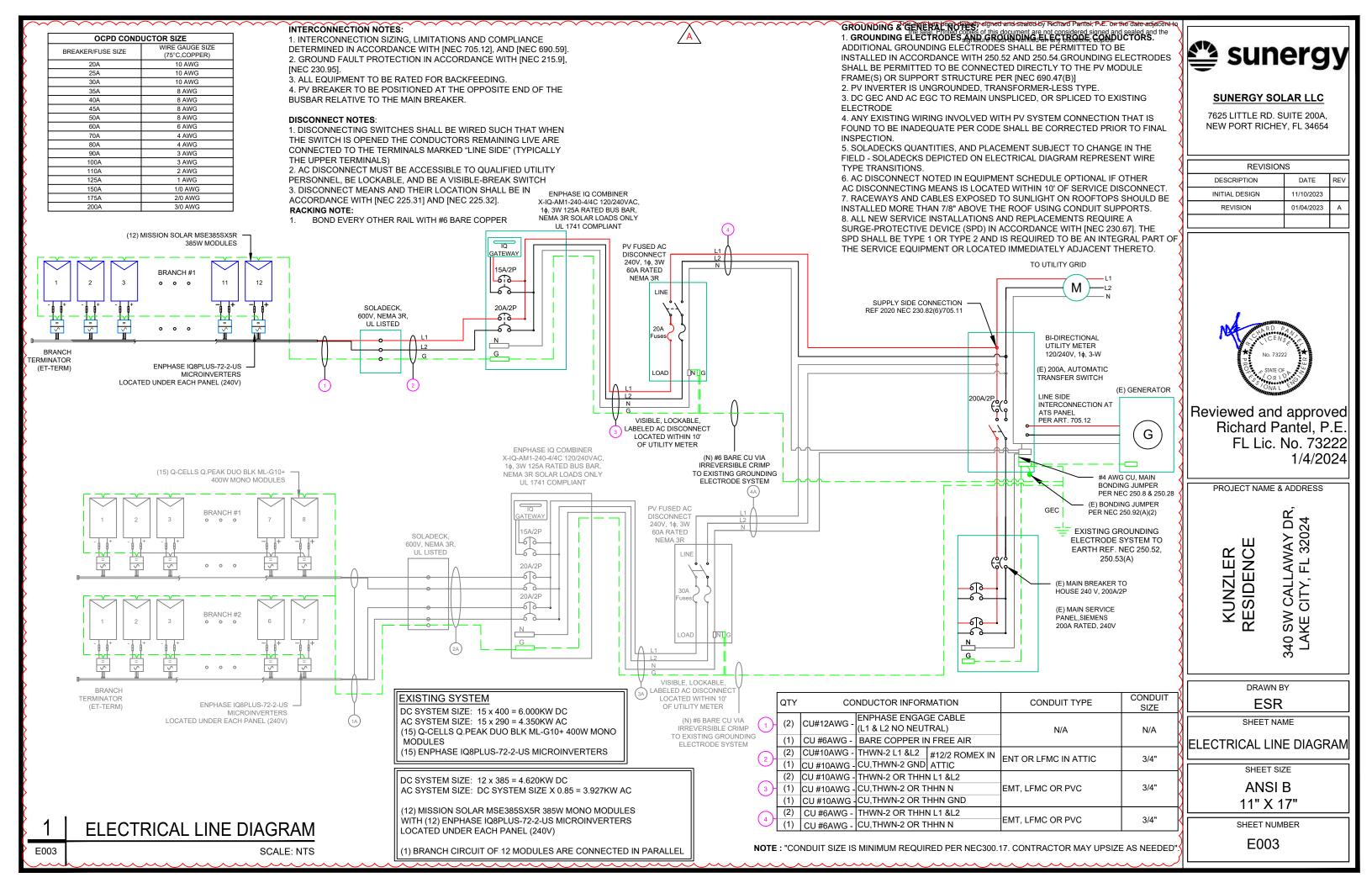
11" X 17"

SHEET NUMBER

S002



S002



INVERTER SPECIFICATIONS						
MANUFACTURER / MODEL #	ENPHASE IQ8PLUS-72-2-US MICROINVERTERS					
MIN/MAX DC VOLT RATING	30V MIN/ 58V 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 #	MISSION SOLAR MSE385SX5R 385W MODULE				
VMP	36.93V				
IMP	10.42A				
VOC	45.03V				
ISC	10.97A				
TEMP. COEFF. VOC	-0.26%/°C				
MODULE DIMENSION	75.07"L x 41.10"W x 1.57"D (In Inch)				

AMBIENT TEMPERATURESPIEC	signature must be	ument are not considered signed and sealed and the everified on any electronic copies.
RECORD LOW TEMP	-5°	or vermed on any electric copies.
AMBIENT TEMP (HIGH TEMP 2%)	37°	
MODULE TEMPERATURE COEFFICIENT OF Voc	-0.26%/°C	

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



SUNERGY SOLAR LLC

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PROJECT NAME & ADDRESS

DR 340 SW CALLAWAY DI LAKE CITY, FL 32024 KUNZLER RESIDENCE

> DRAWN BY **ESR**

SHEET NAME

WIRING CALCULATIONS

SHEET SIZE **ANSIB**

11" X 17"

SHEET NUMBER

E004

AC CALCULATIONS

																						/ //
CIRCUIT ORIGIN	CIRCIUT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	I FI A*1 75	OCPD SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)		TEMP (°C)	TOTAL CC CONDUCTORS IN RACEWAY	90°C		FOR CONDUCTORS	AMPACITY		FEEDER	CONDUCTO R RESISTANCE (OHM/KFT)	DROP AT	CONDUIT SIZE	CONDUIT FILL (%)
CIRCUIT 1	SOLADECK	2/10	1/.52	18.15	20	N/A	BARE COPPER #6 AWG	CU #12 AWG	25	PASS	37	2	30	0.91	1	27.3	PASS			0.65	N/A	#N/A <
SOLADECK	COMBINER BOX	240	14.52	18.15	20	N/A	CU #10 AWG	CU #10 AWG	35	PASS	37	2	40	0.91	-	36.4	PASS	20	1.24	0.300	3/4" ENT	11.87617
COMBINER BOX	AC DISCONNECT	240	14.52	18.15	20	CU #10 AWG	CU #10 AWG	CU #10 AWG	35	PASS	37	2	40	0.91		36.4	PASS	5	1.24	0.075	3/4" EMT	15.8349
AC DISCONNECT	POL	240	14.52	18.15	20	CU #6 AWG	N/A	CU #6 AWG	65	PASS	37	2	75	0.91		68.25	PASS	5	0.491	0.030	3/4" EMT	28.53659

Circuit 1 Voltage Drop 1.055

EXISITING SYSTEM

NEW SYSTEM

CIRCUIT ORIGIN CIRCUIT DESTINATION VOLTAGE (V) FUIL LOAD AMPS "FLA" (A) FLA*1.25 (A) SIZE (A) FUIL LOAD SIZE (A) FOR ONDUCTOR SIZE GROUND SIZE GROUND SIZE GROUND SIZE GROUND SIZE CONDUCTOR SIZE CONDUCTOR SIZE CONDUCTOR SIZE AMPACITY (A) FEEDER RESISTANCE (CONDUCTORS IN RACEWAY NEC SIZE (A) FEEDER RESISTANCE (COMPACITY (A) FEED	ONDUIT CON SIZE FILL	NDUIT
CIRCUIT 1 SOLADECK 240 9.68 12.10 20 N/A BARE COPPER #6 AWG CU #12 AWG 25 PASS 37 2 30 0.91 1 27.3 PASS 0.30	N/A #N	N/A
CIRCUIT 2 SOLADECK 240 8.47 10.59 20 N/A BARE COPPER #6 AWG CU #12 AWG 25 PASS 37 2 30 0.91 1 27.3 PASS 0.23	N/A #N	N/A
SOLADECK COMBINER BOX 240 9.68 12.10 20 N/A CU #10 AWG CU #10 AWG 35 PASS 37 4 40 0.91 0.8 29.12 PASS 20 1.24 0.200 3/	/4" ENT 19.7	.79362 \
COMBINER BOX AC DISCONNECT 240 18.15 22.69 30 CU #10 AWG CU #10 AWG 35 PASS 37 2 40 0.91 1 36.4 PASS 5 1.24 0.094 3/	/4" EMT 15	5.8349
AC DISCONNECT PCI 240 18.15 22.69 3C CU #5 AWG N/A CU #6 AWG 65 PASS 37 2 75 0.91 1 68.25 PASS 5 C.491 0.037 3/	/4" EMT 28.5	.52659

Circuit 1 Voltage Drop 0.631 Circult 1 Voltage Drop

ELECTRICAL NOTES

- ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 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.
- WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- WHERE SIZES OF SOLADECKS, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
- 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.
- 11. CONDUIT INSTALLED AT MINIMUM DISTANCE OF 7/8 INCHES ABOVE ROOFNEC 310.15(B)(3)(C)

CAUTION: AUTHORIZED SOLAR PERSONNEL ONLY!

LABEL-1: LABEL LOCATION: AC DISCONNECT

⚠ WARNING

ELECTRICAL SHOCK HAZARD

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

LABEL- 2: LABEL LOCATION: AC DISCONNECT COMBINER MAIN SERVICE PANEL SUBPANEL

MAIN SERVICE DISCONNECT CODE REF: NEC 690.13(B)

LABEL- 3: 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 - 4:

<u>LABEL LOCATION:</u>

MAIN SERVICE PANEL

SUBPANEL

MAIN SERVICE DISCONNECT

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

△ CAUTION

PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFEED

LABEL- 5: <u>LABEL LOCATION:</u> 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

△ WARNING

POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE

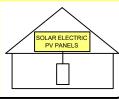
LABEL- 6: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) SUBPANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 705.12(B)(3)(2)

THIS EQUIPMENT FED BY
MULTIPLE SOURCES. TOTAL
RATING OF ALL OVERCURRENT
DEVICES EXCLUDING MAIN
SUPPLY OVERCURRENT DEVICE
SHALL NOT EXCEED AMPACITY
OF BUSBAR.

LABEL- 7: <u>LABEL LOCATION:</u> 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 - 8: LABEL LOCATION: AC DISCONNECT

CODE REF: FFPC 11.12.1.1.1.1 & NEC 690.56(C)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL- 9:

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

PHOTOVOLTAIC

AC DISCONNECT

LABEL-10: LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.13(B)

PHOTOVOLTAIC AC DISCONNECT

NOMINAL OPERATING AC VOLATGE

RATED AC OUTPUT CURRENT

LABEL- 11:
LABEL LOCATION:
MAIN SERVICE PANEL

AC DISCONNECT CODE REF: NEC 690.54

SUBPANEL

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

LABEL- 12: LABEL LOCATION:

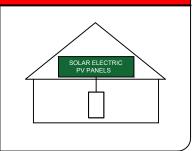
MAIN SERVICE DISCONNECT (ONLY IF MAIN SERVICE DISCONNECT IS PRESENT)
CODE REF: NEC 690.13(B)

240 V

14.52 A

EMERGENCY RESPONDER: THIS SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE 'OFF' POSITION TO SHUTDOWN ENTIRE PV SYSTEM



THE LABEL SHALL BE REFLECTIVE, WITH ALL LETTERS CAPITALIZED AND HAVING A MINIMUM HEIGHT OF 3/8 IN. (9.5 MM), IN WHITE ON A RED BACKGROUND.

LABEL- 13

LABEL LOCATION:
AC DISCONNECT

CODE REF:NFPA 1 (11.12.2.1.1.1.1)

THE RAPID SHUTDOWN LABEL SHALL BE LOCATED ON OR NO MORE

THAN 3 FT (1 M) FROM THE SERVICE DISCONNECTING MEANS

his item has been digitally signed and sealed by Richard Pantel, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the

SUNERGY SOLAR LLC EMERGENCY CONTACT (727) 375-9375

LABEL-14

LABEL LOCATION:
MAIN SERVICE DISCONNECT
CODE REF: NFPA 1 (11.12.2.1.5)

😩 sunergy

SUNERGY SOLAR LLC

7625 LITTLE RD. SUITE 200A, NEW PORT RICHEY, FL 34654

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Reviewed and approved Richard Pantel, P.E. FL Lic. No. 73222 1/4/2024

PROJECT NAME & ADDRESS

KUNZLER RESIDENCE 340 SW CALLAWAY DR, LAKE CITY, FL 32024

DRAWN BY

SHEET NAME

LABELS

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER

E005

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PROJECT NAME & ADDRESS

KUNZLER RESIDENCE 340 SW CALLAWAY DR, LAKE CITY, FL 32024

DRAWN BY

SHEET NAME

PLACARD

SHEET SIZE

ANSI B

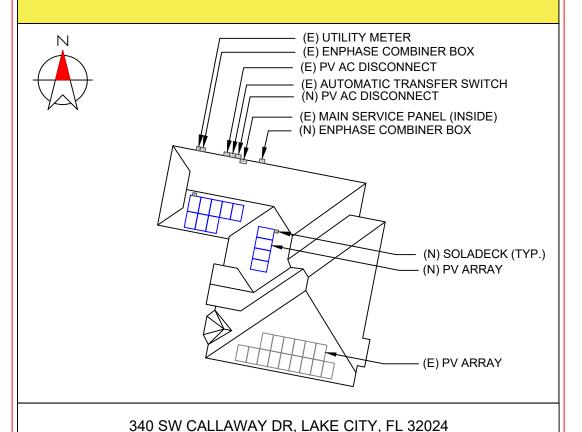
11" X 17"

SHEET NUMBER

E006

CAUTION:

MULTIPLE SOURCES OF POWER



DIRECTORY

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM.

(ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED WITHIN: NEC 690.56(B)&(C), [NEC 705.10])
PER FFPC 11.12.2.1.4

LABELING NOTES:

- 1. LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS. ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
- 2. LABELING REQUIREMENTS BASED ON THE 2020 NATIONAL ELECTRIC CODE, OSHA STANDARD 19010.145, ANSI Z535.
- 3. MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 4. LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED [NEC 110.21]
- 5. LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND; REFLECTIVE, AND PERMANENTLY AFFIXED FFPC 11.12.2.1.1.2

MSE PERC 66





Class leading power output -0 to +3%



True American Quality True American Brand

Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American, high-quality solar modules ensuring the highest-in-class power output and best-in-class reliability. Our product line is tailored for residential, commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long term.

Demand the best. Demand Mission Solar Energy.



Certified Reliability

- Tested to UL 61730 & IEC Standards
- PID resistant
- Resistance to salt mist corrosion



Advanced Technology

- 6 Busbar
- Passivated Emitter Rear Contact
- Ideal for all applications



Extreme Weather Resilience

- . Up to 5,400 Pa front load & 3,600 Pa back load
- Tested load to UL 61730
- 40 mm frame



BAA Compliant for Government Projects Buy American Act

American Recovery & Reinvestment Act





CERTIFICATIONS

FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.58% annually from years two to 30 with 84.08% capacity guaranteed in year 25. For more information, visit www.missionsolar.com/warranty



C-SA2-MKTG-0027 REV 2 05/05/2021





If you have questions certification of our

UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

www.missionsolar.com | info@missionsolar.com

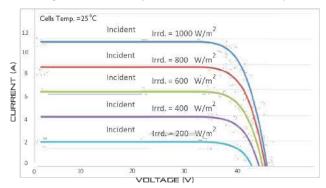
Class Leading 375-385W

[UNITS: MM/IN] FRONT VIEW SIDE VIEW REAR VIEW

BASIC DIMENSIONS

CURRENT-VOLTAGE CURVE MSE385SX5R: 385WP, 66 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS			
IEC	61215, 61730, 61701		
UL	61730		







Mission Solar Energy

8303 S. New Braunfels Ave., San Antonio, Texas 78235 www.missionsolar.com | info@missionsolar.com

Mission Solar Energy reserves the right to make specification changes without notice. C-SA2-MKTG-0027 REV 2 05/05/2021

MSE PERC 66

PRODUCT TYPE	MSE	xxx5X	5R (xxx = P	max)	
Power Output	Pmax	W_{P}	375	380	385
Module Efficiency		%	18.8	19.1	19.3
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	Isc	٧	10.85	10.91	10.97
Open Circuit Voltage	Vac	Α	44,64	44.84	45.03
Rated Current	Imp	٧	10.26	10.34	10.42
Rated Voltage	Vmp	V	36.56	36,75	36.93
Fuse Rating		Α	20	20	20
System Voltage		V	1.000	1.000	1,000

TEMPERATURE COEFF	ICIENTS
Normal Operating Cell Temperature (NOCT)	44.43°C (±3.7%)
Temperature Coefficient of Pmax	-0.361%/°C
Temperature Coefficient of Voc	-0,262%/°C
Temperature Coefficient of Isc	0.039%/°C

OPERATIN	G CONDITIONS
Maximum System Voltage	1,000Vdc
Operating Temperature Range	-40°C (-40°F) to +85°C (185°F)
Maximum Series Fuse Rating	20A
Fire Safety Classification	Type 1
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 3,600 Pa back load, Tested to UL 61730
Hail Safety Impact Velocity	25mm at 23 m/s

MECHANICAL DATA			
Solar Cells	P-type mono-crystalline silicon		
Cell Orientation	66 cells (6x11)		
Module Dimension	1,907mm x 1,044mm x 40mm		
Weight	22 kg (49 lbs.)		
Front Glass	3.2mm, tempered, low-iron, anti-reflective		
Frame	Anodized		
Encapsulant	Ethylene vinyl acetate (EVA)		
Junction Box	Protection class IP67 with 3 bypass-diodes		
Cable	1.0m, Wire 4mm2 (12AWG)		
Connector	Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR MC4. Renhe 05-8		

Container Feet	Ship To	Pallet	Panels	380 W Bin
53'	Most States	30	780	296.40 kW
Double Stack	CA	26	676	256.88 kW
	PALLE	T [26 PAN	IELS]	
Weight	Height		Width	Length
1,274 lbs.	47.56 in		46 in	77 in
(572 kg)	(120.80 cm) (1	16.84 cm)	(195.58 cm)

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SUNERGY SOLAR LLC

7625 LITTLE RD. SUITE 200A, NEW PORT RICHEY, FL 34654

REVISIONS				
DESCRIPTION	DATE	REV		
INITIAL DESIGN	11/10/2023			
REVISION	01/04/2023	Α		



Reviewed and approved Richard Pantel, P.E. FL Lic. No. 73222 1/4/2024

PROJECT NAME & ADDRESS

40 SW CALLAWAY DR LAKE CITY, FL 32024 RESIDENCE KUNZLER

> DRAWN BY **ESR**

SHEET NAME **MODULE** DATASHEET

> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

PD001







IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, softwaredefined 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 in advanced 55nm technology with high speed digital logic and has super-fast 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 Enphase IQ Battery, Enphase IQ Gateway, and the Enphase App monitoring and analysis software.



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

IQ8 Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, when installed according to manufacturer's instructions.

IQ8 Series Microinverters redefine reliability

leading limited warranty of up to 25 years.

standards with more than one million cumulative

hours of power-on testing, enabling an industry-

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IQ8SP-DS-0002-01-EN-US-2022-03-17

Easy to install

- · Lightweight and compact with plug-n-play connectors
- · 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 testing
- Class II double-insulated enclosure
- · Optimized for the latest highpowered PV modules

Microgrid-forming

- · Complies with the latest advanced grid support**
- Remote automatic updates for the latest grid requirements
- · Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) requirements
- * Only when installed with IQ System Controller 2, meets UL 1741.
- ** IQ8 and IQ8Plus supports split phase, 240V installations only.

IQ8 and IQ8+ Microinverters

INPUT DATA (DC)		IQ8-60-2-US	IQBPLUS-72-2-US
Commonly used module pairings ¹	W	235 - 350	235 – 440
Module compatibility		60-cell/120 half-cell	60-cell/120 half-cell, 66-cell/132 half-cell and 72-cell/144 half-cell
MPPT voltage range	٧	27 - 37	29 – 45
Operating range	V	25 - 48	25 - 58
Min/max start voltage	٧	30 / 48	30 / 58
Max input DC voltage	V	50	60
Max DC current ² [module lsc]	Α		15
Overvoltage class DC port			1
DC port backfeed current	mA		0
PV array configuration		1x1 Ungrounded array; No additional DC side protect	ction required; AC side protection requires max 20A per branch circuit
DUTBUT DATA (AC)		100 60 3 116	10001115 22 115

	1,764,77,0407,9		
DUTPUT DATA (AC)		IQ8-60-2-US	IQ8PLUS-72-2-US
Peak output power	VA	245	300
Max continuous output power	VA	240	290
Nominal (L-L) voltage/range ³	v	240	0 / 211 - 264
Max continuous output current	А	1.0	1.21
Nominal frequency	Hz		60
Extended frequency range	Hz		50 - 68
AC short circuit fault current over 3 cycles	Arms		2
Max units per 20 A (L-L) branch circ	uit ⁴	16	13
Total harmonic distortion			<5%
Overvoltage class AC port			Ш
AC port backfeed current	mA		30
Power factor setting			1.0
Grid-tied power factor (adjustable)		0.85 lead	ling - 0.85 lagging
Peak efficiency	%	97.5	97.6
CEC weighted efficiency	%	97	97
Night-time power consumption	mW		60

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MECHANICAL DATA	
Ambient temperature range	-40°C to +60°C (-40°F to +140°F)
Relative humidity range	4% to 100% (condensing)
DC Connector type	MC4
Dimensions (HxWxD)	212 mm (8.3") x 175 mm (6.9") x 30.2 mm (1.2")
Weight	1.08 kg (2.38 lbs)
Cooling	Natural convection - no fans
Approved for wet locations	Yes
Pollution degree	PD3
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure
Environ. category / UV exposure rating	NEMA Type 6 / outdoor

CA Rule 21 (UL 1741-SA), UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01

This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.

(1) No enforced DC/AC ratio. See the compatibility calculator at https://link.enphase.com/module-compatibility (2) Maximum continuous input DC current is 10.6A (3) Nominal voltage range can be extended beyond nominal if required by the utility. (4) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

Certifications

IQ8SP-DS-0002-01-EN-US-2022-03-17



SUNERGY SOLAR LLC

7625 LITTLE RD. SUITE 200A, NEW PORT RICHEY, FL 34654

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Reviewed and approved Richard Pantel, P.E. FL Lic. No. 73222 1/4/2024

PROJECT NAME & ADDRESS

N CALLAWAY DR, CITY, FL 32024

RESIDENCE KUNZLER

> DRAWN BY **ESR**

SHEET NAME **MICROINVERTER** DATASHEET

> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

PD002

his item has been digitally signed and sealed by Richard Pantel, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

IQ Combiner 4 with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI

C12.20 +/- 0.5%) and consumption monitoring (+/- 2.5%). Includes a silver solar shield to match the IQ Battery system and

Data Sheet **Enphase Networking**

Enphase IQ Combiner 4/4C

X-IQ-AM1-240-4 X-IQ-AM1-240-4C



The Enphase IQ Combiner 4/4C with Enphase IQ Gateway and integrated LTE-M1 cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure and streamlines IQ microinverters and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.

Smart

- · Includes IQ Gateway for communication and control
- · Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), included only with IQ
- · Includes solar shield to match Enphase IQ Battery aesthetics and deflect heat
- · Flexible networking supports Wi-Fi, Ethernet, or cellular
- · Optional AC receptacle available for PLC bridge
- · Provides production metering and consumption monitoring

Simple

- · Centered mounting brackets support single
- · Supports bottom, back and side conduit entry
- · Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- · 80A total PV or storage branch circuits

Reliable

- · Durable NRTL-certified NEMA type 3R enclosure
- · Five-vear limited warranty
- · Two years labor reimbursement program coverage included for both the IQ Combiner SKU's
- UL listed





Compliance, IQ Gateway

IQ Combiner 4C (X-IQ-AM1-240-4C) IQ Combiner 4C with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI~C12.20~+/-~0.5%)~and~consumption~monitoring~(+/-~2.5%).~Includes~Enphase~Mobile~Connect~cellular~modem~(CELLMODEM-M1-06-SP-05),~a~plug-and-play~industrial-grade~cell~modem~for~systems~up~to~60~microinverters.(Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.) Includes a silver solar shield to match the IQ Battery and IQ System Controller and to deflect heat.

IQ System Controller 2 and to deflect heat.

ACCESSORIES AND REPLACEMENT PARTS (not included, order separately) - Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan for COMMS-CELLMODEM-M1-06 CELLMODEM-M1-06-SP-05 -4G based LTE-M1 cellular modem with 5-year Sprint data plan CELLMODEM-M1-06-AT-05 - 4G based LTE-M1 cellular modem with 5-year AT&T data plan Circuit Breakers Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers BRK-10A-2-240V Circuit breaker, 2 pole, 10A, Eaton BR210 Circuit breaker, 2 pole, 15A, Eaton BR215 BRK-15A-2-240V BRK-20A-2P-240V Circuit breaker, 2 pole, 20A, Eaton BR220 BRK-15A-2P-240V-B Circuit breaker, 2 pole, 15A, Eaton BR215B with hold down kit support BRK-20A-2P-240V-B Circuit breaker, 2 pole, 20A, Eaton BR220B with hold down kit support EPLC-01 Power line carrier (communication bridge pair), quantity - one pair XA-SOLARSHIELD-ES Replacement solar shield for IQ Combiner 4/4C

XA-PLUG-120-3 Accessory receptacle for Power Line Carrier in IQ Combiner 4/4C (required for EPLC-01) XA-ENV-PCBA-3 Replacement IQ Gateway printed circuit board (PCB) for Combiner 4/4C

X-IQ-NA-HD-125A Hold down kit for Eaton circuit breaker with screws.

ELECTRICAL SPECIFICATIONS

Enphase IQ Combiner 4/4C

MODEL NUMBER

IQ Combiner 4 (X-IQ-AM1-240-4)

ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240 VAC, 60 Hz
Eaton BR series busbar rating	125A
Max. continuous current rating	65 A
Max. continuous current rating (input from PV/storage)	64 A
Max. fuse/circuit rating (output)	90 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max. total branch circuit breaker rating (input)	80A of distributed generation / 95A with IQ Gateway breaker included
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway
Consumption monitoring CT (CT 200 SPLIT)	A pair of 200 A colit care current transformers

MECHANICAL DATA	
Dimensions (WxHxD)	$37.5 \times 49.5 \times 16.8 \text{ cm} (14.75\text{"} \times 19.5\text{"} \times 6.63\text{"})$. Height is $21.06\text{"} (53.5 \text{ cm})$ with mounting brackets.
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40° C to +46° C (-40° to 115° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors 60 A breaker branch input: 4 to 1/0 AWG copper conductors Main lug combined output: 10 to 2/0 AWG copper conductors Neutral and ground: 14 to 1/0 copper conductors Always follow local code requirements for conductor sizing.
Altitude	To 2000 meters (6,560 feet)

Integrated Wi-Fi 802.11b/g/n

Cellular	CELLMODEM-M1-06-SP-05, CELLMODEM-M1-06-AT-05 (4G based LTE-M1 cellular modem). Note that an Enphase Mobile Connect cellular modem is required for all Ensemble installations.
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)
COMPLIANCE	
Compliance, IQ Combiner	UL 1741, CAN/CSA C22.2 No. 107.1, 47 CFR, Part 15, Class B, ICES 003 Production metering: ANSI C12.20 accuracy class 0.5 (PV production)

Consumption metering: accuracy class 2.5

UL 60601-1/CANCSA 22.2 No. 61010-1

To learn more about Enphase offerings, visit enphase.com

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7625 LITTLE RD. SUITE 200A, NEW PORT RICHEY, FL 34654

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INITIAL DESIGN	11/10/2023	
REVISION	01/04/2023	Α



Reviewed and approved Richard Pantel, P.E. FL Lic. No. 73222 1/4/2024

PROJECT NAME & ADDRESS

KUNZLER RESIDENCE

N CALLAWAY DR, E CITY, FL 32024 340

DRAWN BY **ESR**

SHEET NAME **COMBINER BOX** DATASHEET

SHEET SIZE

ENPHASE

ANSI B 11" X 17"

SHEET NUMBER

PD003

This item has been digitally signed and sealed by Richard Pantel, P.E. on the date adjacent to

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Splice Foot XL

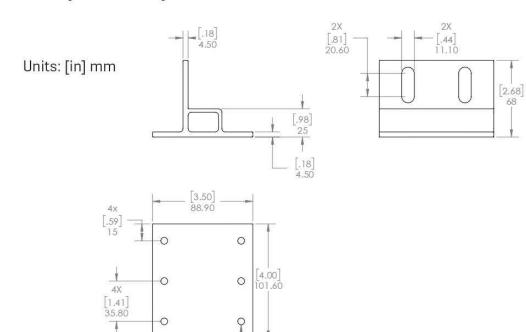
TECHNICAL SHEET

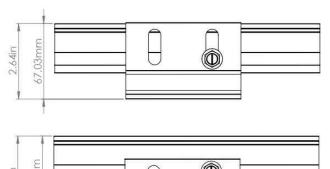
Item Number	Description	Part Number
1	Splice Foot XL	4000162 Splice Foot XL Kit, Mill
2	K2 EverSeal	
3	M5 x 60 lag screws	
4	T-Bolt & Hex Nut Set	

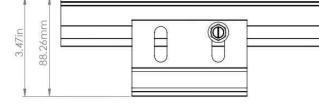
Technical Data

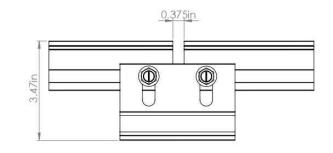
	Splice Foot XL
Roof Type	Composition shingle
Material	Aluminum with stainless steel hardware
Finish	Mill
Roof Connection	M5 x 60 lag screws
Code Compliance	UL 2703
Compatibility	CrossRail 44-X, 48-X, 48-XL, 80

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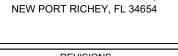








🖴 sunergy **SUNERGY SOLAR LLC**



7625 LITTLE RD. SUITE 200A,

REVISIONS		
DESCRIPTION	DATE	REV
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Reviewed and approved Richard Pantel, P.E. FL Lic. No. 73222 1/4/2024

PROJECT NAME & ADDRESS

340 SW CALLAWAY DR, LAKE CITY, FL 32024 KUNZLER RESIDENCE

> DRAWN BY **ESR**

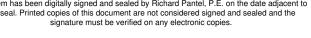
SHEET NAME **ATTACHMENT** DATASHEET

> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER PD004

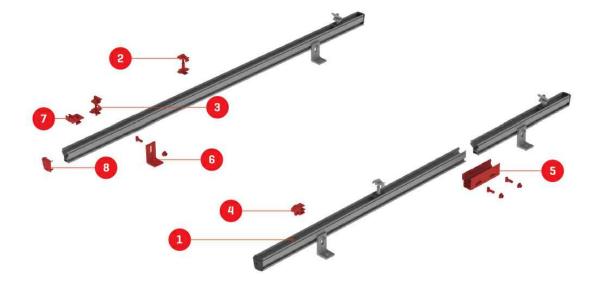
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CrossRail System

TECHNICAL SHEET

Item Number	Description	Part Number
1	CrossRail 44-X (shown) all CR profiles applicable	4000019 (166" mill), 4000020 (166" dark) , 4000021 (180" mill), 4000022 (180" dark)
2	CrossRail Mid Clamp	4000601-H (mill), 4000602-H (dark)
3	CrossRail (Standard) End Clamp	4000429 (mill), 4000430 (dark)
4	Yeti Hidden End Clamp for CR	4000050-Н
5	CrossRail 44-X Rail Connector (shown) CR 48-X, 48-XL Rail Connector available	4000051 (mill), 4000052 (dark)
6	L-Foot Slotted Set	4000630 (mill), 4000631 (dark)
7	Everest Ground Lug	4000006-H
8	CrossRail 44-X End Cap (shown) CrossRail 48-X, 48-XL and 80 available	4000067

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CROSSRAIL 44-X



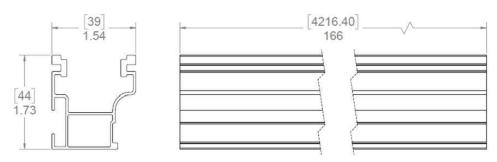
Mechanical Properties

	CrossRail 44-X
Material	6000 Series Aluminum
Ultimate Tensile Strength	37.7 ksi (260 MPa)
Yield Strength	34.8 ksi [240 MPa]
Weight	0.47 lbs/ft (0.699 kg/m)
Finish	Mill or Dark Anodized

Sectional Properties

	CrossRail 44-X
Sx	0.1490 in3 (0.3785 cm3)
Sy	0.1450 in3 (0.3683 cm3)
A (X-Section)	0.4050 in2 (1.0287 cm2

Units: [mm] in



Notes:

- ▶ Structural values and span charts determined in accordance with Aluminum Design Manual and ASCE 7-16
- UL2703 Listed System for Fire and Bonding



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PROJECT NAME & ADDRESS

KUNZLER RESIDENCE

340 SW CALLAWAY DR, LAKE CITY, FL 32024

DRAWN BY **ESR**

SHEET NAME **RACKING** DATASHEET

> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

PD005

k2-systems.com

k2-systems.com



Basic Features

- Stamped Seamless Construction
- 18 Gauge Galvanized Steel
- Powder Coated Surfaces
- · Flashes into the roof deck
- 3 Roof deck knockouts .5", .75", 1"
- 5 Centering dimples for entry/exit fittings or conduit
- 2 Position Ground lug installed
- Mounting Hardware Included



SolaDeck Model SD 0783



SolaDeck UL50 Type 3R Enclosures

Available Models: Model SD 0783 - (3" fixed Din Rail) Model SD 0786 - (6" slotted Din Rail)

SolaDeck UL 1741 Combiner/Enclosures

Models SD 0783-41 and SD 0786-41 are labeled and ETL listed UL STD 1741 according to the UL STD 1741 for photovoltaic combiner enclosures.

Max Rated - 600VDC, 120AMPS



- 4- Din Rail Mounted Fuse Holders 600VDC 30 AMP
- 1- Power Distribution Block 600VDC 175AMP
- 1- Bus Bar with UL lug

Model SD 0786-41 6" Slotted Din Rail fastened using steel studs

**Typical System Configuration

- 4- Din Rail Mounted Fuse Holders 600VDC 30 AMP
- 4- Din Rail Mounted Terminal Blocks Bus Bars with UL lug

**Fuse holders and terminal blocks added in the field must be UL listed or recognized and meet 600 VDC 30 AMP 110C for fuse holders, 600V 50 AMP 90C for rail mounted terminal blocks and 600 V 175 AMP 90C for Power Distribution Blocks, Use Copper Wire Conductors.



conduit or fittings, base is center dimpled for fitting locations.



Model SD 0783-41, wired with Din Rail mounted fuse holders, bus bar and power distribution



Model SD 0786-41, wired with Din Rail mounted fuse holders. terminal blocks and bus bars.



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PROJECT NAME & ADDRESS

340 SW CALLAWAY DR LAKE CITY, FL 32024 KUNZLER RESIDENCE

> DRAWN BY **ESR**

SHEET NAME **SOLADECK**

DATASHEET

SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

PD006

RSTC Enterprises, Inc • 2219 Heimstead Road • Eau Cliare, WI 54703 For product information call 1(866) 367-7782