NEW PHOTOVOLTAIC SYSTEM 5.265kW DC / 3.800kW AC 102 COLESHILL ROAD, ANGIER, NC 27501

AHJ

NC-COUNTYOFHARNETT

UTILITY

DUKEENERGYPROGRESS(DEP)(NC)

CODESANDSTANDARDS

ELECTRIC CODE: NEC 2017 WITH NC AMENDMENTS FIRE CODE: NCFC 2018 BUILDING CODE: NCBC 2018 RESIDENTIAL CODE: NCRC 2018 WIND SPEED: 117 MPH SNOW LOAD: 20 PSF

SCOPE OF WORK

(N) 5.265kW DC / 3.800kW AC ROOF MOUNT PV SYSTEM
(13) HANWHA QCELLS Q.PEAK DUO BLK ML-G10+ 405 (405W)
MODULES
(1) SOLAREDGE TECHNOLOGIES SE3800H-US (240V) INVERTER
(13) SOLAREDGE S440 POWER OPTIMIZERS

VICINITY MAP

GENERAL NOTES

1.MODULES ARE LISTED UNDER UL 1703 / UL 61730 AND CONFORM TO THE STANDARDS.

2.INVERTERS ARE LISTED UNDER UL 1741 AND CONFORM TO THE STANDARDS.

3.DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT OF THE PV SYSTEM. ACTUAL SITE CONDITIONS MAY VARY.

4.WORKING CLEARANCES AROUND THE NEW PV ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26.

5.ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL / SERVICE EQUIPMENT.

6.ALL CONDUCTORS SHALL BE 600V, 90°C STANDARD COPPER UNLESS OTHERWISE NOTED.

7.WHEN REQUIRED, A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS. 8.THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM UTILITY IS RECEIVED.

9.ROOF ACCESS POINT SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREES, WIRES OR SIGNS. 10.PV ARRAY COMBINER / JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING.

11.RACKING SYSTEM SHALL BE LISTED TO UL 2703. 12.FIRE RATING OF EXISTING ROOF ASSEMBLY SHALL BE MAINTAINED WITH ADDITIONAL OF PHOTOVOLTAIC SYSTEM.

STRUCTURAL NOTES :1. THESE PLANS ARE STAMPED FOR

STRUCTURAL CODE COMPLIANCE OF THE ROOF FRAMING SUPPORTING THE PROPOSED PV INSTALLATION ONLY.2. THESE PLANS ARE NOT STAMPED FOR WATER LEAKAGE.3. PV MODULES, RACKING, AND ATTACHMENT COMPONENTS MUST FOLLOW MANUFACTURER GUIDELINES AND REQUIREMENTS.4. PLEASE SEE THE ACCOMPANYING STRUCTURAL CALCULATIONS REPORT FOR ADDITIONAL INFORMATION.5. PRIOR TO COMMENCEMENT OF WORK, THE SOLAR INSTALLER SHALL VERIFY THE ROOF FRAMING INFO BEFORE INSTALLATION AND NOTIFY THE E.O.R. IF THERE IS ANY INCONSISTENCY BETWEEN SITE VERIFICATION AND FOLLOWING: 2x4 RAFTERS @ 24" OC SPACING WITH MAX UNSUPPORTED SPAN EQUAL OR LESS THAN 10 FT.

SHEET CATALOG

PV-1	COVER SHEET
PV-2	SITE PLAN
PV-3	MOUNTING DETAILS
PV-3.1	STRUCTURAL DETAILS
PV-4	SINGLE LINE DIAGRAM
PV-4.1	ELECTRICAL CALCULATIONS
PV-5	PLACARDS
SS	SPEC SHEETS

METER NUMBER: 322 500 639

CONTRACTOR INFORMATION



PALMETTO SOLAR

ADDRESS: 997 MORRISON DRIVE, SUITE 200, CHARLESTON, SC 29403

PHONE NUMBER: (855) 339-1831

CUSTOMER INFORMATION

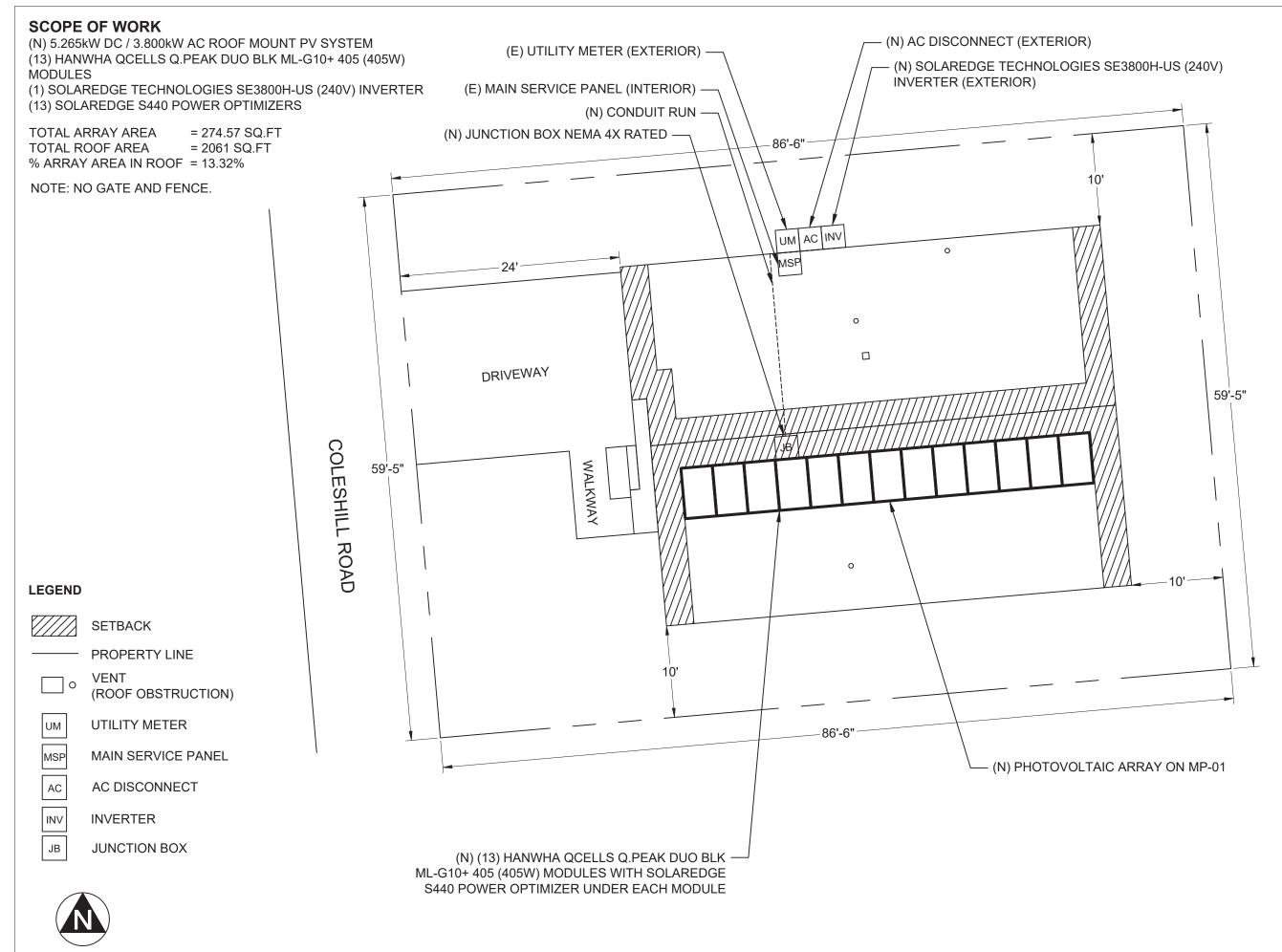
NAME: JOSEPH FISH

ADDRESS: 102 COLESHILL ROAD, ANGIER, NC 27501

COORDINATES: 35.469972, -78.789231

APN: 040662010455





SCALE:1"=10'-0"

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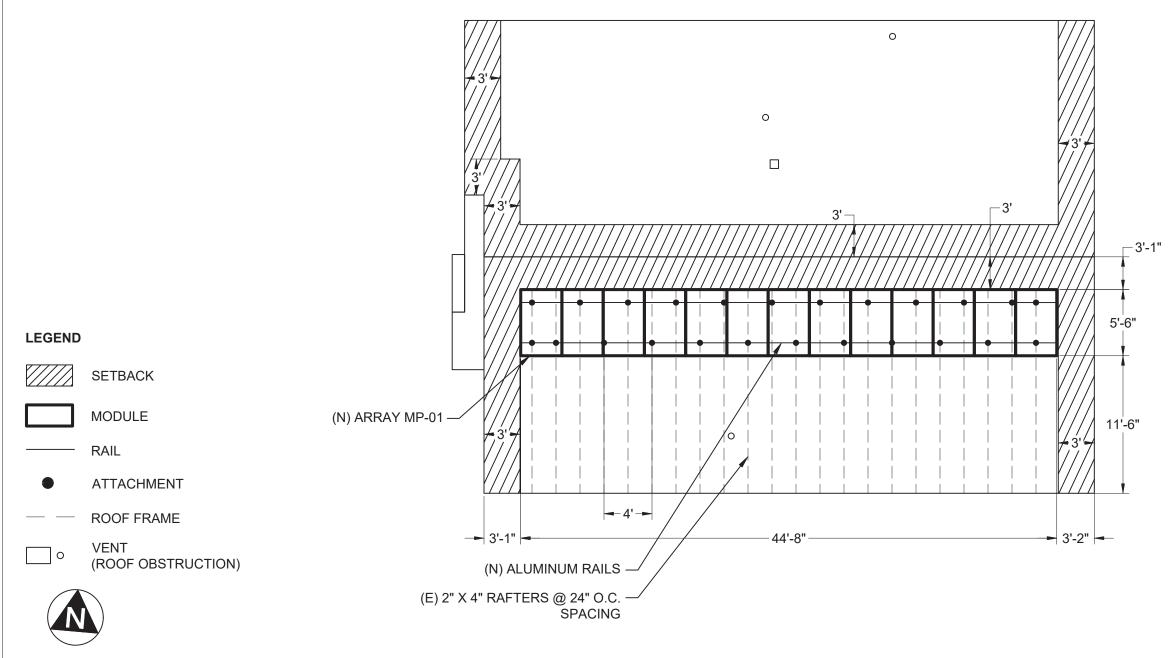
PROJECT ID	AUR-88518
DATE	11/6/2023
CREATED BY	VK
SIGNATURE	
SITE PLAN PV-2	

	WIND SPEED: 117 MPH AND SNOW LOAD: 20 PSF												
S.NO	AZIMUTH	PITCH	NO. OF MODULES	ARRAY AREA (SQ.FT)	ROOF TYPE	ATTACHMENT	ATTACHMENT QUANTITY	ROOF EXPOSURE	FRAME TYPE	FRAME SIZE	FRAME SPACING	MAX ATTACHMENT SPACING	MAX OVER HANG
MP-01	175°	27°	13	274.57	COMPOSITION SHINGLE	IRONRIDGE QUICKMOUNT L-MOUNT	24	ATTIC	RAFTERS	2" X 4"	24" O.C.	4'-0"	1'-6"

NOTES:

1. PENETRATIONS ARE STAGGERED.

2. TOTAL ATTACHMENTS: 24.









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		(N) SOLAF		(E) COMPOSI MEMBRANE (E) 2" X 4" F
				(E) ROOF DECKING
				(N) FLASHING
				F
DFAI	D LOAD CAL		S	
BOM	QUANTITY	LBS/UNIT	TOTAL WEIGHT (LBS)	
MODULES	13	48.5	630.5	
MID-CLAMP	24	0.05	1.2	
	4	0.05	0.2	
END-CLAMP				
END-CLAMP RAIL LENGTH	91	0.43	39.13	
	91 6	0.43	39.13 2.16	
RAIL LENGTH				(N) IRONRIDGE QUICKMOUNT L-MOUNT
RAIL LENGTH SPLICE BAR IRONRIDGE QUICKMOUNT	6	0.36	2.16	(N) IRONRIDGE QUICKMOUNT L-MOUNT ——/
RAIL LENGTH SPLICE BAR IRONRIDGE QUICKMOUNT L-MOUNT	6 24 13	0.36 0.7565 1.58	2.16 18.15	(N) IRONRIDGE QUICKMOUNT L-MOUNT
RAIL LENGTH SPLICE BAR IRONRIDGE QUICKMOUNT L-MOUNT OPTIMIZER	6 24 13 THE SYSTEM	0.36 0.7565 1.58 (LBS)	2.16 18.15 20.54	(N) IRONRIDGE QUICKMOUNT L-MOUNT ———— (N) STAINLESS STEEL 5/16" LAG SCREW MIN.———— 2.5" EMBEDMENT PILOT HOLE REQUIRED
RAIL LENGTH SPLICE BAR IRONRIDGE QUICKMOUNT L-MOUNT OPTIMIZER TOTAL WEIGHT OF	6 24 13 THE SYSTEM A ON THE ROO	0.36 0.7565 1.58 (LBS)	2.16 18.15 20.54 711.88	(N) IRONRIDGE QUICKMOUNT L-MOUNT/ (N) STAINLESS STEEL 5/16" LAG SCREW MIN

(N) IRONRIDGE QUICKMOUNT L-MOUNT -

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5.265kW DC / 3.800kW AC ROOF MOUNT PV SYSTEM

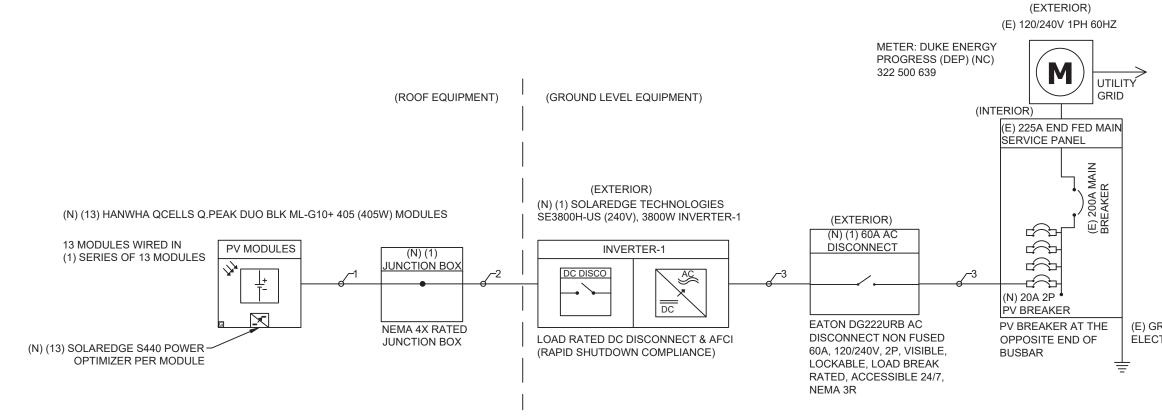


MPOSITION SHINGLE ROOF

SCALE: NTS

2" X 4" RAFTERS @ 24" O.C. SPACING

MODULE SPEC	IFICATIONS	INVERTE	OPTIMIZER CHAR		
MODEL	HANWHA QCELLS Q.PEAK DUO BLK ML-G10+ 405 (405W)	MODEL	SOLAREDGE TECHNOLOGIES SE3800H-US (240V)	MODEL	
MODULE POWER @ STC	405W				F
OPEN CIRCUIT VOLTAGE:Voc	45.34V	POWER RATING	3800W		L
MAX POWER VOLTAGE:Vmp	37.39V	MAX OUTPUT CURRENT	16A		
SHORT CIRCUIT CURRENT: Isc	11.17A	CEC WEIGHTED EFFICIENCY	99%		┝
MAX POWER CURRENT:Imp	10.83A		10.5A	MAX INPUT CURRENT	
TEMPERATURE COEFFICIENT:Voc	-0.27%/K	MAX INPUT CURRENT	10.5A		┢
MODULE DIMENSIONS: L x W x H	74" x 41.1" x 1.26"	MAX DC VOLTAGE	480V	CURRENT	
NUMBER OF MODULES	13	NUMBER OF INVERTERS	1	NUMBER OF OPTIMIZERS	



	CONDUCTOR SCHEDULE						
TAG ID	CONDUIT SIZE	NEUTRAL	GROUND				
1	NONE	(2) 10 AWG PV WIRE	NONE	(1) 6 AWG BARE COPPER, EGC			
2	3/4" EMT	(2) 10 AWG THHN/THWN-2, Cu	NONE	(1) 10 AWG THHN/THWN-2, EGC			
3	3/4" EMT	(2) 10 AWG THHN/THWN-2, Cu	(1) 10 AWG THHN/THWN-2, Cu	(1) 10 AWG THHN/THWN-2, EGC			

RACTERISTICS

SOLAREDGE S440 POWER OPTIMIZER

8VDC

60VDC

14.5ADC

15ADC

13

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5.265kW DC / 3.800kW AC ROOF MOUNT PV SYSTEM

(E) GROUNDING ELECTRODE

PROJECT ID	AUR-88518
DATE	11/6/2023
CREATED BY	VK
SIGNATURE	
SINGLE LINE I PV-4	DIAGRAM

SYSTEM CHARAC	TERISTICS
DC SYSTEM SIZE	5265W
INVERTER STRING VOLTAGE:Vmp	380V
MAX INVERTER SYSTEM VOLTAGE:Voc	480V
MAX SHORT CIRCUIT CURRENT	15A
OPERATING CURRENT	13.85A

OCPD CALCULATION

ALLOWABLE BACKFEED

MAIN PANEL RATING	= 225A		
MAIN BREAKER RATING	= 200A		
120% RULE:	= (MAIN PA	NEL RATING * 1.2) - MAIN BREAKER	R/
	= (225A * 1.	.2) - 200A	
	= 270A - 20	,	
ALLOWABLE BACKFEED	= 70A		
	10/1		
INVERTER OVERCURRENT P	ROTECTION	N•	
		N = INVERTER O/P CURRENT * CONT	INI
		= 16 * 1.25	
		= 10 1.25 = 20A	
PV OVERCURRENT PROTEC	HON	= 20A	

ALLOWABLE BACKFEED 70A ≥ 20A PV OVERCURRENT PROTECTION

THE DESIGNED INTERCONNECTION MEETS THE 705.12(B)(2)(3)(b) REQUIREM

ELECTRICAL NOTES

- 1. CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC 310.10(D).
- 2. CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC 310.10(C).
- 3. MAXIMUM DC/AC VOLTAGE DROP SHALL BE NO MORE THAN 2%.
- 4. ALL CONDUCTORS SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED.
- 5. BREAKER/FUSE SIZES PER NEC 240.
- 6. AC EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC 250.122.
- 7. AMBIENT TEMPERATURE CORRECTION FACTOR IS BASED ON NEC 310.15(B)(2)(a).
- 8. MAX. SYSTEM VOLTAGE COEFFICIENT IS FROM MODULE MANUFACTURER OR NEC 690.7 WHEN MANUFACTURER COEFFICIENT UNAVAILABLE.
- 9. CONDUCTORS ARE SIZED PER NEC TABLE 310.15(B)(16).
- 10. CONDUIT SHALL BE INSTALLED MINIMUM 7/8" FROM ROOF SURFACE.

DC WIRE SIZING CALCULATIONS BASED ON FOLLOWING EQUATIONS

REQUIRED CONDUCTOR AMPACITY:

Isc(A) * # OF PARALLEL STRINGS = MAX CURRENT PER 690.8(A)(5) * 125% = MAX CURRENT PER 690.8(B)(1)

CORRECTED AMPACITY CALCULATIONS:

DERATED CONDUCTOR AMPACITY PER 690.8(B)(2) = AMPACITY * TEMPERATURE DERATE FACTOR * CONDUIT FILL DERATE DERATED CONDUCTOR AMPACITY CHECK : MAX CURRENT PER 690.8(B)(1) <

DERATED CONDUCTOR AMPACITY

AC WIRE SIZING CALCULATIONS BASED ON FOLLOWING EQUATIONS

REQUIRED CONDUCTOR AMPACITY:

INVERTER OUTPUT CURRENT * # OF INVERTERS = MAX CURRENT PER 690.8(A)(3) * 125% = MAX CURRENT PER 690.8(B)(1)

CORRECTED AMPACITY CALCULATIONS:

DERATED CONDUCTOR AMPACITY PER 690.8(B)(2) = AMPACITY * TEMPERATURE DERATE FACTOR * CONDUIT FILL DERATE DERATED CONDUCTOR AMPACITY CHECK : MAX CURRENT PER 690.8(B)(1) <

DERATED CONDUCTOR AMPACITY

WIRE SIZE CALCULATIONS

AMBIENT TEMPERATURE @ 36°C

TAG 1: (DC)

REQUIRED CONDUCTOR AMPACITY (15 * 1.25) CORRECTED AMPACITY CALCULATION (0.91 * 1 * 40) 18.75A < 36.4A (#10 AWG PV WIRE)

TAG 2: (DC)

REQUIRED CONDUCTOR AMPACITY (15 * 1.25) CORRECTED AMPACITY CALCULATION (0.91 * 1 * 40) 18.75A < 36.4A (3/4" EMT, #10 AWG THHN/THWN-2, Cu)

TAG 3: (AC)

REQUIRED CONDUCTOR AMPACITY (16 * 1 * 1.25) CORRECTED AMPACITY CALCULATION (0.88 * 1 * 35) 20A < 30.8A (3/4" EMT, #10 AWG THHN/THWN-2, Cu)

	CONTRAC	CTOR INFORMATION
RATING INUOUS LOAD (1.25)	PALMETTO SO ADDRESS: 99 SUITE 200, CH	Palmetto ® DLAR 7 MORRISON DRIVE, HARLESTON, SC 29403 SER: (855) 339-1831
	CUSTON	
	NAME: JOSEP	H FISH
MENTS.	ADDRESS: 10 ANGIER, NC 2	2 COLESHILL ROAD, 7501
	COORDINATE	S: 35.469972, -78.789231
	APN: 0406620	10455
		3.800kW AC ROOF
= 18.75A = 36.4A	MOUNT PV SY	'STEM
= 18.75A = 36.4A		
= 20A = 30.8A		
	PROJECT ID	AUR-88518
	DATE	11/6/2023
	CREATED BY	VK
	SIGNATURE	
	ELECTRICAL	CALCULATIONS

WARNING

ELECTRIC SHOCK HAZARD

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

DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

LABEL LOCATION

AC DISCONNECT, POINT OF INTERCONNECTION PER CODE: NEC 690.13

WARNING: PHOTOVOLTAIC **POWER SOURCE**

LABEL LOCATION

CONDUIT, INVERTER DC DISCONNECT PER CODE: NEC 690.31(G)(3)

PHOTOVOLTAIC

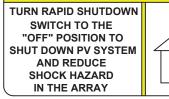
AC DISCONNECT

LABEL LOCATION

AC DISCONNECT, POINT OF INTERCONNECTION PER CODE: NEC 690.13(B)

DLAR EL

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN



LABEL LOCATION AC DISCONNECT, INVERTER DC DISCONNECT, POINT OF INTERCONNECTION PER CODE: NEC 690.56(C)(1)(a)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION

INVERTER DC DISCONNECT PER CODE: NEC 690.56(C)(3)

PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH

RATED AC OPERATING CURRENT **<u>16.00</u>** AMPS AC AC NOMINAL OPERATING VOLTAGE **240** VAC

LABEL LOCATION

AC DISCONNECT, POINT OF INTERCONNECTION PER CODE: NEC 690.54



LABEL LOCATION POINT OF INTERCONNECTION PER CODE: NEC 705.12(B)(3)

WARNING **POWER SOURCE OUTPUT** CONNECTION **DO NOT RELOCATE THIS OVER-CURRENT DEVICE**

LABEL LOCATION

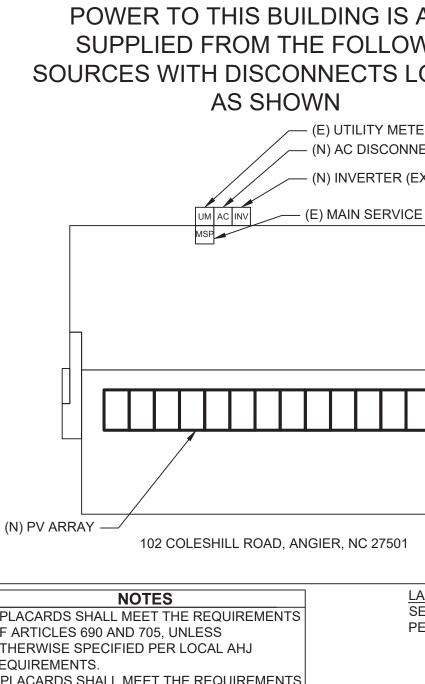
POINT OF INTERCONNECTION PER CODE: NEC 705.12(B)(2)(3)(b)

INVERTER-1

MAXIMUM SYSTEM VOLTAGE(Voc)	480	V
MAXIMUM CIRCUIT CURRENT(Isc)	15	А
MAXIMUM RATED OUTPUT CURRENT OF THE CHARGE	15	А
CONTROLLER OR DC-TO-DC CONVERTER(IF INSTALLED)		

LABEL LOCATION INVERTER DC DISCONNECT PER CODE: NEC 690.53

CAUTION: MULTIPLE SOURCE OF POWER



1.PLACARDS SHALL MEET THE REQUIREMENTS
OF ARTICLES 690 AND 705, UNLESS
OTHERWISE SPECIFIED PER LOCAL AHJ
REQUIREMENTS.
2.PLACARDS SHALL MEET THE REQUIREMENTS
OF SECTION 110.21(B) AS REQUIRED AND
SHALL COMPLY WITH ANSI Z535.4-2011,
PRODUCT SAFETY SIGNS AND LABELS.
3.PLACARDS SHALL BE PERMANENTLY AFFIXED
TO THE EQUIPMENT OR WIRING METHOD.
4.PLACARDS SHALL BE OF SUFFICIENT
DURABILITY TO WITHSTAND THE
ENVIRONMENT INVOLVED AND SHALL BE
HANDWRITTEN.
5.PLACARDS SHALL NOT COVER EXISTING
MANUFACTURER LABELS.
6.WARNING SIGNAGE TEXT SHALL BE MINIMUM
3/8" TALL.

S	
ALS WIN .OC	
	XTERIOR) EXTERIOR) IOR)
E PAN	EL (INTERIOR)
SERVIC	LOCATION CE PANEL DDE: NEC 705.10

CONTRACTOR INFORMATION



PALMETTO SOLAR

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CUSTOMER INFORMATION

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COORDINATES: 35.469972, -78.789231

APN: 040662010455

PROJECT ID	AUR-88518
DATE	11/6/2023
CREATED BY	VK
SIGNATURE	
PLACARDS	
PV-5	

Q.PEAK DUO BLK ML-G10+ SERIES



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

MODEL Q.PEAK DUO BLK ML-G10+



6 busbar

cell technology



Breaking the 20% efficiency barrier Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.

A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty¹.

Enduring high performance Long-term yield security with Anti LeTID Technology, Anti PID Technology² and Hot-Spot Protect.

Extreme weather rating

High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).

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

The most thorough testing programme in the industry

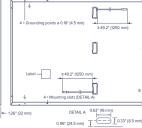
Qcells is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.

¹ See data sheet on rear for further information ² APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96 h)

Q.PEAK DUO BLK ML-G10+ SERIES

Mechanical Specification

Format	74.0 in × 41.1 in × 1.26 in (including frame) (1879 mm × 1045 mm × 32 mm)			
Weight	48.5 lbs (22.0 kg)			
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology			
Back Cover	Composite film			
Frame	Black anodised aluminium			
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells			
Junction box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes			
Cable	4mm² Solar cable; (+) ≥49.2 in (1250mm), (−) ≥49.2 in (1250mm)			
Connector	Stäubli MC4; IP68			



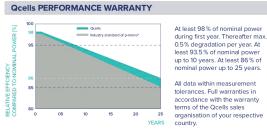
42.8" (1088 mm)

Electrical Characteristics

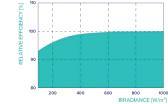
PC	WER CLASS			385	390	395	400
MIN	IMUM PERFORMANCE AT STANDARD TE	ST CONDITIONS, ST	°C1 (POWER	TOLERANCE +5 V	V/-0W)		
	Power at MPP ¹	P _{MPP}	[W]	385	390	395	400
_	Short Circuit Current ¹	I _{sc}	[A]	11.04	11.07	11.10	11.14
unu	Open Circuit Voltage ¹	V _{oc}	[V]	45.19	45.23	45.27	45.30
Minir	Current at MPP	MPP	[A]	10.59	10.65	10.71	10.77
2	Voltage at MPP	V _{MPP}	[V]	36.36	36.62	36.88	37.13
	Efficiency ¹	η	[%]	≥19.6	≥19.9	≥20.1	≥20.4

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

Power at MPP	P _{MPP}	[W]	288.8	292.6	296.3	300.1	303.8	307.6
Short Circuit Current	I _{sc}	[A]	8.90	8.92	8.95	8.97	9.00	9.03
Open Circuit Voltage	V _{oc}	[V]	42.62	42.65	42.69	42.72	42.76	42.79
Current at MPP	MPP	[A]	8.35	8.41	8.46	8.51	8.57	8.62
Voltage at MPP	V	[V]	34.59	34.81	35.03	35.25	35.46	35.68







arison to STC conditions (25°C, 1000 W/m²)

ns of guarantee for the 5 PV companie Iction capacity in 2021 (February 2021)

TEMPERATURE COEFFICIENTS					
Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of $\rm V_{\rm oc}$	β
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMO

Properties for System Design

Maximum System Voltage	V_{sys}	[V]	1000 (IEC)/1000 (UL)	PV module classification
Maximum Series Fuse Rating		[A DC]	20	Fire Rating based on ANSI/UL 61730
Max. Design Load, Push/Pull ³		[lbs/ft2]	75 (3600Pa)/55 (2660Pa)	Permitted Module Temperature
Max. Test Load, Push/Pull ³		[lbs/ft2]	113 (5400 Pa)/84 (4000 Pa)	on Continuous Duty
³ See Installation Manual				

Qualifications and Certificates

UL 61730. CE-complian trolled PV - TÜV Rheinla U.S. Patent No. 9,893,215 (solar cells), \triangle CE

Qcells pursues minimizing paper output in consideration of the global environment. Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product. Hanwha Q CELLS America Inc. 400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA I TEL ±1 949 748 59 96 I EMAIL hqc-inquiry@qcells.com I WEB www.qcells.com

The ideal solution for:



Rooftop arrays on residential buildings

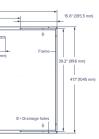


12 busbar

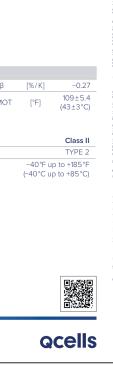
cell technology



CONTRACTOR INFORMATION



405	410
405	410
11.17	11.20
45.34	45.37
10.83	10.89
37.39	37.64
≥20.6	≥20.9



0 Palmetto

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PROJECT ID	AUR-88518
DATE	11/6/2023
CREATED BY	VK
SIGNATURE	
MODULE SPEC	C SHEET

SolarEdge Home Wave Inverter For North America

SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US





Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using SolarEdge SetApp
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014-2023 per articles 690.11 and 690.12

UL1741 SA certified, for CPUC Rule 21 grid compliance

12-25

NVERTERS

- Small, lightweight, and easy to install both outdoors or indoors
- Built-in module-level monitoring
- Øptional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)

/ SolarEdge Home Wave Inverter For North America

SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	SEXXXXH-XXXXBXX4					
	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	
OUTPUT						
Rated AC Power Output	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	
AC Output Voltage MinNomMax. (211 - 240 - 264)	✓	~	~	~	~	
AC Output Voltage MinNomMax. (183 - 208 - 229)	✓	-	~	-	-	
AC Frequency (Nominal)			59.3 - 60	- 60.5(1)		
Maximum Continuous Output Current @240V	16	21	25	32	42	
Maximum Continuous Output Current @208V	16	-	24	-	-	
Power Factor			1, Adjustable - 0.85 to 0.85			
GFDI Threshold			1			
Utility Monitoring, Islanding Protection, Country Configurable Thresholds			Yes			
INPUT						
Maximum DC Power @240V	5900	7750	9300	11800	15500	
Maximum DC Power @208V	5100	-	7750	-	-	
Transformer-less, Ungrounded			Ye	s		
Maximum Input Voltage			48	D		
Nominal DC Input Voltage			38	0		
Maximum Input Current @240V ⁽²⁾	10.5	13.5	16.5	20	27	
Maximum Input Current @208V ⁽²⁾	9	-	13.5	-	-	
Max. Input Short Circuit Current			45			
Reverse-Polarity Protection			Ye	s		
Ground-Fault Isolation Detection			600k Ser	isitivity		
Maximum Inverter Efficiency			99.	2		
CEC Weighted Efficiency			99			
Nighttime Power Consumption			< 2	.5		

(1) For other regional settings please contact SolarEdge support.

(1) To Forter regional sectings prease contact solar edge support.(2) A higher current source may be used; the inverter will limit its input current to the values stated.



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CONTRACTOR INFORMATION



PALMETTO SOLAR

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PHONE NUMBER: (855) 339-1831

CUSTOMER INFORMATION

NAME: JOSEPH FISH

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COORDINATES: 35.469972, -78.789231

APN: 040662010455

PROJECT ID	AUR-88518
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SIGNATURE	
INVERTER SP SS	EC SHEET

	-
SE11400H- XXXXXBXX5	
SE11400H-US	Units
11400 @ 240V 10000 @ 208V	VA
11400 @ 240V 10000 @ 208V	VA
~	Vac
~	Vac
	Hz
47.5	А
48.5	A
	A
17650	W
15500	W
	Vdc
	Vdc
30.5	Adc
27	Adc
	Adc
	%
99 @ 240V 98.5 @ 208V	%
JUJ @ 200V	W

/ SolarEdge Home Wave Inverter For North America

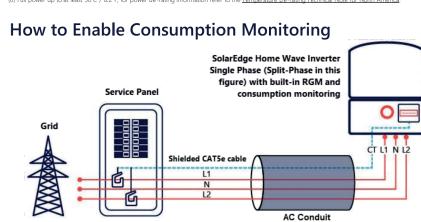
SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	SEXXXXH-XXXXBXX4 SE11400H- XXXXXBXX5						
	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
ADDITIONAL FEATURES				0.			
Supported Communication Interfaces	F	RS485, Ethernet, ZigBee (optional), wireless SolarEdge Home Network (optional) ⁽³⁾ , Wi-Fi (optional), Cellular (optional)					
Revenue Grade Metering, ANSI C12.20		Optional ⁽⁴⁾					
Consumption Metering							
Inverter Commissioning	With	the SetApp mobile	application using B	uilt-in Wi-Fi Access	Point for Local Conr	nection	
Rapid Shutdown - NEC 2014-2023 per articles 690.11 and 690.12		Automatic Rapid Shutdown upon AC Grid Disconnect					
STANDARD COMPLIANCE							
Safety	UL174	UL1741, UL1741 SA, UL1741 SB, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07					
Grid Connection Standards		IEEE1547-2018, Rule 21, Rule 14 (HI), CSA C22.3 No. 9					
Emissions		FCC Part 15 Class B					
INSTALLATION SPECIFICATION	S						
AC Output Conduit Size / AWG Range		1" Maximum	/ 14 – 6 AWG		1" Maximum	/ 14 – 4 AWG	
DC Input Conduit Size / # of Strings / AWG Range		"' Maximum / 1 – 2	strings / 14 – 6 AWC	5		ximum / / 14 – 6 AWG	
Dimensions with Safety Switch (H x W x D)		17.7 x 14.6 x 6.8	/ 450 x 370 x 174		21.06 x 14.6 x 7.3 / 535 x 370 x 185	21.06 x 14.6 x 8.2 / 535 x 370 x 208 ⁽⁵⁾	in / mm
Weight with Safety Switch	22 / 10	25.1 / 11.4	26.2 /	′ 11.9	38.8 / 17.6	44.9 / 20.4(5)	lb / kg
Noise		< 25			<50		dBA
Cooling			Natural	Convection			
Operating Temperature Range		-40 to +140 / -40 to +60 ⁽⁶⁾		°F/°C			
Protection Rating		NEMA 4X (Inverter with Safety Switch)					

(3) For more information, refer to the SolarEdge Home Network datashee

(4) Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxxH-US000BEI4. For consumption metering, current transformers should be ordered separately. SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box.

(5) SE11400H-USxx8bx2 is the updated PN, though SE11400H-USxx8bx4 will still be available. All specifications are similar for both models, EXCLUDING the weight and dimensions [HxWxD]; The weight and dimensions of SE11400H-USxx8bx4 are 17.6 [kg] and 21.06-14.6-7.3 / 535-370-185 [in/mm], accordingly.
 (6) Full power up to at least 50°C / 122°F; for power de-rating information refer to the <u>Temperature De-rating Technical Note for North America</u>.



By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills.

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SIGNATURE		
INVERTER SPEC SHEET		

Power Optimizer

For Residential Installations

S440 / S500 / S500B / S650B



POWER OPTIMIZ

Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- Detects abnormal PV connector behavior, preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)

- Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Faster installations with simplified cable management and easy assembly using a single bolt
- Flexible system design for maximum space utilization
- Compatible with bifacial PV modules

* Functionality subject to inverter model and firmware version

solaredge

/ Power Optimizer For Residential Installations S440 / S500 / S500B / S650B

	S440	S500	S500B	S650B	UNIT
INPUT					<i>.</i>
Rated Input DC Power ⁽¹⁾	440	500)	650	W
Absolute Maximum Input Voltage (Voc)	60		125	85	Vdc
MPPT Operating Range	8 - 60		12.5 - 105	12.5 - 85	Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5		15		Adc
Maximum Efficiency		99.5	;		%
Weighted Efficiency		98.6)		%
Overvoltage Category					
OUTPUT DURING OPERTION					
Maximum Output Current		15			Adc
Maximum Output Voltage	60		8	30	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER	DISCONNECTED FRO	M INVERTER C	R INVERTER OF	F)	
Safety Output Voltage per Power Optimizer		1 ± 0	.1		Vdc
STANDARD COMPLIANCE ⁽²⁾					
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3, CISPR11, EN-55011				
Safety	IEC62109-1 (class II safety), UL1741				
Material	UL94 V-0, UV Resistant				
RoHS	Yes				
Fire Safety	VDE-AR-E 2100-712:2018-12				
INSTALLATION SPECIFICATIONS					
Maximum Allowed System Voltage		1000)		Vdc
Dimensions (W x L x H)	129 x 155 x 3	0	129 x 1	65 x 45	mm
Weight	720		7	90	gr
Input Connector		MC4	(3)		
Input Wire Length		0.1			m
Output Connector		MC4	1		
Output Wire Length		(+) 2.3, (-) 0.10		m
Operating Temperature Range ⁽⁴⁾		-40 to	+85		°C
Protection Rating		IP68	3		
Relative Humidity		0 - 10	00		%

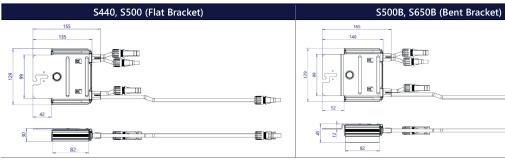
(2) For details about CE compliance, see Declaration of Conformity - CE.

 (3) For other connector types please contact SolarEdge.
 (4) Power de-rating is applied for ambient temperatures above +85°C for S440 and S500, and for ambient temperatures above +75°C for S500B. Refer to the emperature De-Rating Technical Note for details

PV System Design Usir	ng a SolarEdge Inverter ⁽⁵⁾	SolarEdge Home Wave Inverter Single Phase	SolarEdge Home Short String Inverter Three Phase	Three Phase for 230/400V Grid	Three Phase for 277/480V Grid	
Minimum String Length	S440, S500	8	9	16	18	
(Power Optimizers)	S500B, S650B	6	8	1	4	
Maximum String Length (Power Optimizers)		25	20	5	0	
Maximum Continuous Powe	r per String	5700	5625	11,250	12,750	W
Maximum Allowed Connected Power per String ⁽⁶⁾ (In multiple string designs, the maximum is permitted only when the difference in connected power between strings is 2,000W or less)		6800(7)	See ⁽⁶⁾	13,500	15,000	W
Parallel Strings of Different Lengths or Orientations			Yes			

(5) It is not allowed to mix S-series and P-series Power Optimizers in new installations in the same string

(6) If the inverter's rated AC power s maximum continuous power per string, then the maximum connected power per string will be able to reach up to the inverters maximum input DC power. Refer to the Single String Design Guidelines application note. For inverters with a rated AC power ≥ 7600W that are connected to at least two strings



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CONTRACTOR INFORMATION



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		SIGNATURE	
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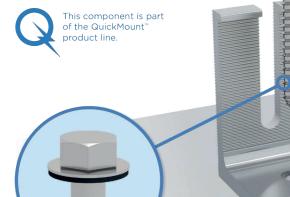


Roof Protection without Compromise

The L-Mount[®] attachment, featuring an open-slotted L-Foot, is designed for cost-effective, single-bolt installation onto existing composition (asphalt) shingle roofs. The patented Elevated Water Seal Technology® has been integrated into the open-slotted L-Foot and flashing for fast installation, to provide maximum waterproofing.

To maximize versatility, the mount is available with a lag bolt or structural screw option for the strength you depend on. Both hardware options come with an installed EPDM bonded washer to seal and prevent water entry.

L-Mount features a 9x12" aluminum flashing with alignment guides and rounded corners, to easily slide under shingles and speed up installation on the roof. The kit is available in both mill and black finishes.



Pre-Installed Sealing Washer Harware options include a lag bolt or structural screw. The EPDM washer arrives already attached



25-Year Warranty Product guaranteed free of impairing defects.

QuickMount[™] L-Mount[®]

Tech Brief



Open-Slotted L-Foot The redesigned L-Foot can rotate 360 degrees for optimal adjustability and

positioning of the rail, while the open

mounted racking on the market.

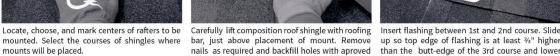
slot allows the rail hardware to quickly

drop-in and be compatible with any side-

L-Mount[®] Installation Instructions

Installation Tools Required: tape measure, roofing bar, chalk line, stud finder, caulking gun, sealant compatible with roofing materials, drill with 7/32" or 1/8" bit, drill or impact gun with 1/2" socket.







mounted. Select the courses of shingles where bar, just above placement of mount. Remove up so top edge of flashing is at least 34" higher nails as required and backfill holes with aproved than the butt-edge of the 3rd course and lower sealant. See "Proper Flashing Placement" on next flashing edge is above the butt-edge of 1st course Mark center for drilling.



ff attaching with lag bolt use a 7/12" bit (Lag). Use a Clean off any sawdust, and fill hole with sealant Place L-foot onto elevated flute and rotate L-foot to 1/8" bit (ST) for attaching with the structural screw. compatible with roofing materials. Drill pilot hole into roof and rafter, taking care to drill square to the roof. Do not use mount as a drill guide. Drill a 2" deep hole into rafter.



Prepare lag bolt or structural screw with sealing You are now ready for the rack of your choice. washer. Using a 1/2-inch socket on an impact gun, drive prepared lag bolt through L-foot until L-foot can no longer easily rotate. DO NOT over-torque. NOTE: Structural screw can be driven with T-30 hex head bit.



Follow all the directions of the rack manufacturer as well as the module manufacturer. NOTE: Make sure top of L-Foot makes solid contact with racking.

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written instructions must also be followed by anyone modifying a roof system. Consult the the roof.

desired orientation

CONTRACTOR INFORMATION

Tech Brief





All roofing manufacturers'

- roof manufacturer's specs and
- instructions prior to working on



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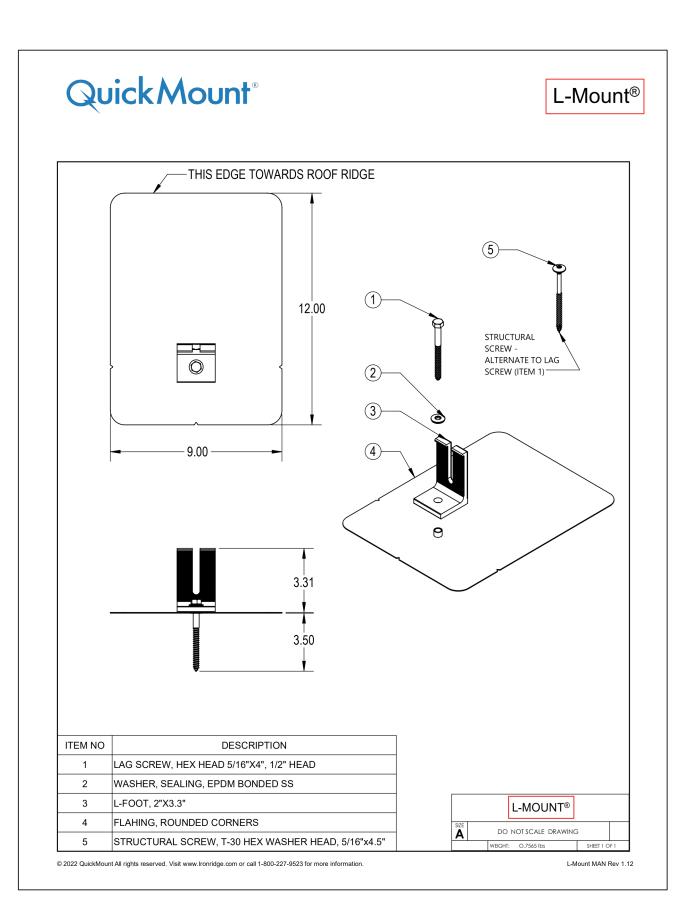
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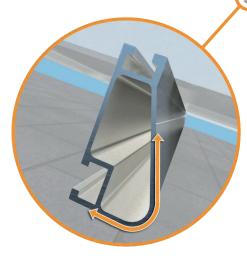
Tech Brief

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.

Compatible with Flat & Pitched Roofs



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

Corrosion-Resistant Materials

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.



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 is a sleek, low-profile mounting

rail, designed for regions with light or

while remaining light and economical.

no snow. It achieves spans up to 6 feet,





XR100

XR100 is the ultimate residential 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

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

XR1000

Rail Selection

· 6' spanning capability

· Moderate load capability

Internal splices available

Clear & black anodized finish

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.

Load				Rail	Span	
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10
	90					
Nana	120					
None	140	XR10		XR100		XR10
	160					
	90					
	120					
20	140					
	160					
00	90					
30	160					
40	90					
40	160					
80	160					
120	160					

CONTRACTOR INFORMATION

Tech Brief



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

0'	12'
000	
etters for ac	tual design guidance.



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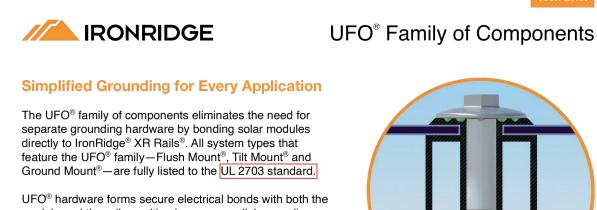
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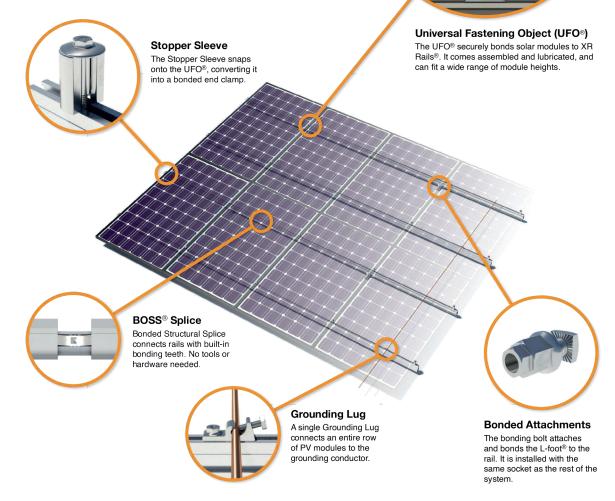
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SIGNATURE		
RAIL SPEC SHEET SS		



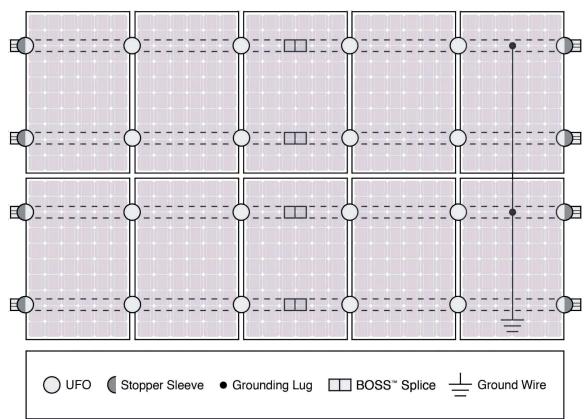
module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations.

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



System Diagram

Tech Brief



Q 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.

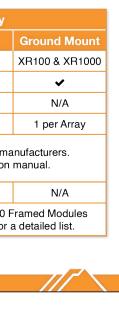
UL 2703 is the standard for evaluating solar mounting systems. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

Go to IronRidge.com/UFO

	Cross-System	Compatibility	
Feature	Flush Mount	Tilt Mount	
XR Rails [®]	✓	~	
UFO [®] /Stopper	✓	~	
BOSS® Splice	✓	~	
Grounding Lugs	1 per Row	1 per Row	
Microinverters & Power Optimizers	Compatible with most MLPE m Refer to system installation		
Fire Rating	Class A	Class A	
Modules	Tested or Evaluated with over 400 Refer to installation manuals for		









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