#### **GENERAL NOTES: INDEX** ALL ELECTRICAL WORK TO BE INSTALLED BY A QUALIFIED AND LICENSED MSP Main Service Panel ELECTRICAL CONTRACTOR. Service Sub Panel SSP ALL SOLAR MODULES SHALL BE UL LISTED 1703 & CEC APPROVED. ALL INVERTERS SHALL BE UL LISTED 1741 CERTIFIED & CEC APPROVED. ALL Solar Inverter INV ELECTRICAL COMPONENTS AND MATERIALS SHALL BE LISTED FOR IT'S Visible Lockable Labeled Disconnect VLLD PURPOSE AND INSTALLED IN A WORKMAN LIKE MANNER. ALL OUTDOOR EQUIPMENT SHALL MEET APPROPRIATE NEMA STANDARDS. DCD DC Disconnect THE ELECTRICAL CONTRACTOR IS ADVISED THAT ALL DRAWINGS AND COMPONENT MANUALS ARE TO BE UNDERSTOOD PRIOR TO INSTALLATION. J.B Junction Box THE CONTRACTOR IS ADVISED TO HAVE ALL SWITCHES IN THE OFF POSITION IQB IQ Combiner Box AND FUSES REMOVED PRIOR TO INSTALLATION OF FUSE-BEARING COMPONENTS. **PVLC** PV Load Center THIS SYSTEM IS INTENDED TO BE OPERATED IN PARALLEL WITH THE UTILITY PMPerformance Meter SERVICE PROVIDER. ANTI-ISLANDING PROTECTION IS A REQUIREMENT OF UL 1741 AND IS INTENDED TO PREVENT THE OPERATION OF THE PV SYSTEM Power Optimizer / Microinverter WHEN THE UTILITY GRID IS NOT OPERATIONAL. PVC/RMC/EMT Type Conduit PERMISSION TO OPERATE THE SYSTEM IS NOT AUTHORIZED UNTIL FINAL INSPECTIONS AND APPROVALS ARE OBTAINED FROM THE LOCAL AUTHORITY FMT Type Conduit HAVING JURISDICTION AND THE LOCAL UTILITY SERVICE PROVIDER. Setback Line THE METHOD OF ATTACHMENT CREATES A UNIFIED STRUCTURE TO MEET DEAD LOAD. WIND LOAD. AND SEISMIC REQUIREMENTS. SOLAR MODULES (N) Solar PV Module WILL BE SECURED TO THE EXISTING ROOF AS SPECIFIED ON THE STRUCTURAL SHEETS. EXISTING ROOF EQUIPMENT WILL NOT BE EFFECTED BY THE PV SYSTEM. ALL STRUCTURAL DESIGN AND INSTALLATION (E) Satellite COMPONENTS ARE THE RESPONSIBILITY OF OTHERS AND OUTSIDE THE SCOPE OF THIS DOCUMENT. (E) Solar PV Module ALL FASTENERS SHALL BE CORROSION RESISTANT APPROPRIATE FOR SITE CONDITIONS. CONNECTORS SHALL BE TORQUED PER DEVICE LISTING OR (E) Chimney ENGINEERING RECOMMENDATIONS. ALL ROOFING REPAIR MUST MAINTAIN EXISTING CLASS AND TYPE OF ROOF AND ALL WORK SHALL BE IN ACCORDANCE WITH THE ROOF IN (E) AC Unit MANUFACTURER'S INSTALLATION REQUIREMENTS. 8 PROJECT VICINITY MAP SHEET INDEX T TITLE PAGE PV1 SITE PLAN Vector Structural Engineering's structural PV2 LINE DIAGRAM **CODE REQUIRED SIGNAGE** PV3 **ATTACHMENT LAYOUT MODULE DATA SHEET** D2 **OPTIMIZER DATA SHEET INVERTER DATA SHEET** D3 **RACKING DATA SHEET** D4

**RACKING DATA SHEET** 

**GROUNDING SPECS** 

ILSCO DATA SHEET

**RACKING & MODULE CERTIFICATIONS** 

**GROUND SCREW DATA SHEET** 

D5

D6

D8

#### PROJECT DESCRIPTION:

SYSTEM SIZE: DC STC: 10.88 kW

AC SIZE: 9.0 kW

SOLAR MODULES: (32) LG SOLAR 340W (LG340N1K-V5)

INVERTER: (1) SOLAREDGE 6.0kW INVERTER (SE6000H-US ENERGY HUB)

(1) SOLAREDGE 3.0kW INVERTER (SE3000H-US)
OPTIMIZERS: (32) SOLAR EDGE P340 OPTIMIZERS

EXISTING MSP BUS: 2x200A

EXISTING MAIN BREAKER: 2x200A PV BREAKER: N/A

ONE STORY BUILDING

ROOF TYPE: COMPOSITION SHINGLE

MOUNTING SYSTEM: IRONRIDGE GROUND MOUNT RACKING

PARCEL NUMBER: 317S1710070108 LOT AREA: 10.06 ACRES LIVING AREA: 3.644 SQFT

#### APPLICABLE CODES

#### 2020 Florida Building Codes 7th Edition

2020 Florida Building Code - Residential 7th Edition
2020 Florida Building Code - Building 7th Edition
2020 Florida Building Code - Energy 7th Edition
2020 Florida Building Code - Test Protocol 7th Edition
2020 Florida Building Code - Plumbing 7th Edition
2020 Florida Building Code - Mechanical 7th Edition
2020 Florida Building Code - Existing Building 7th Edition
2020 Florida Building Code - Fuel Gas 7th Edition
2020 Florida Building Code - Accessibility 7th Edition

2020 Florida Fire Prevention Code

NEC 2017 National Electric Code - NFPA 70 Fair Housing Guidelines

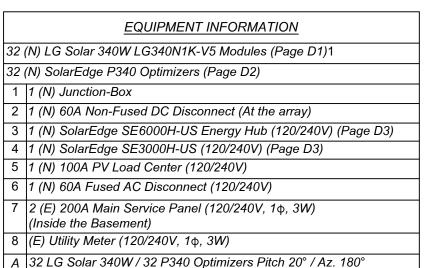


#### scope of work is for the ground screw foundation system only. Ground screws are to be installed per the manufacturer's written instructions and load tested to the values listed in the structural letter. Depths greater than the manufacturer's minimums may be required to meet the required test load values Digitally signed Jacob by Jacob S Proctor Date: 2021.07.27 Proctor 14:47:17 07/27/2021 VSE Project Number: U2620.0901.211 This item has been digitally signed and sealed by Jacob S. Proctor on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature nust be verified on any electronic copies.

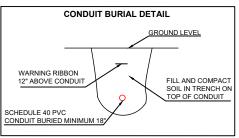
## PROJECT SATELLITE VIEW

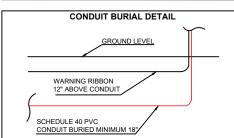


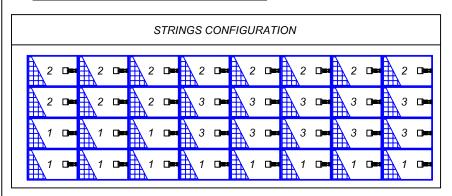
Project Name	Address	Project Description	Contractor	Contractor Logo	Signature	<u>Note</u>	Drawn By: Unique Solar Design	General I	Notes
<u>r roject wante</u>	Audress		Contractor	<u>Contractor Logo</u>	Signature	<u>note</u>	Ziami Zy: cinque ceiai Zeeigii	Date JULY 11, 2021	SHEET SIZE 11" X 17" ANSI B
Richard Frey	1042 SW Woodland Ave., Fort White, FL 32038	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules 1-Solar Edge 6.0kW Inverter 1-Solar Edge 3.0kW Inverter	<u>Green Solar</u>	GreenSolar			U N I Q U E S O L A R O D E S I G N		SHEET NUMBER

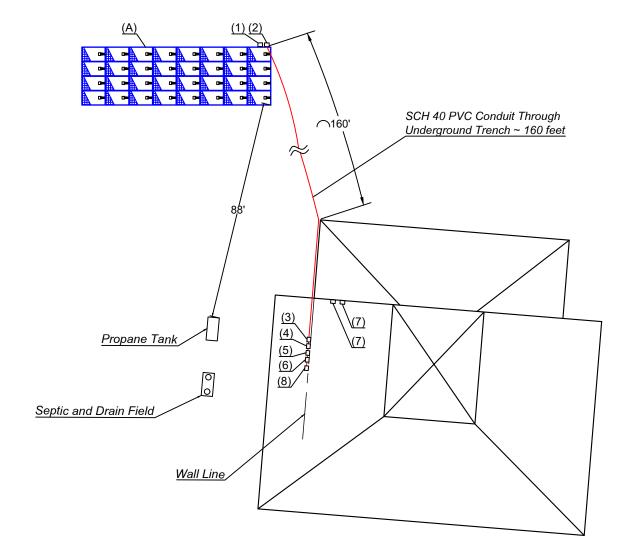


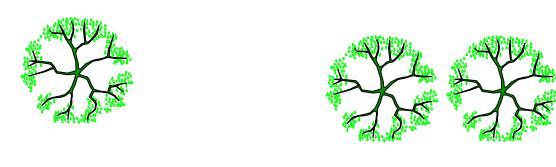
NOTE: PVC conduit and fittings directly buried in earth at a depth not less than 18"



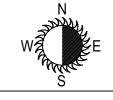








S W Fox Squirrel Pl.



	SC	4 <i>LE</i>	
0	10	20	30ft

Project Name	Address	Project Description	Contractor	Contractor Logo	<u>Signature</u>	<u>Note</u>	Drawn By: Unique Solar Design	General No	otes
Richard Frey	1042 SW Woodland Ave., Fort White, FL 32038	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules 1-Solar Edge 6.0kW Inverter 1-Solar Edge 3.0kW Inverter	Green Solar	Powered by GreenSolar	<u> </u>	, make	UNIQUE SOLARO	JULY 11, 2021	SHEET SIZE 11"X 17" ANSI B  SHEET NUMBER

	EQUIPMENT INFORMATION
1	32 (N) LG Solar 340W LG340N1K-V5 Modules (Page D1)
2	32 (N) SolarEdge P340 Optimizers (Page D2)
3	1 (N) Junction-Box
4	1 (N) 60A Non-Fused DC Disconnect (At the array)
5	1 (N) SolarEdge SE6000H-US Energy Hub (120/240V) (Page D3)
6	1 (N) SolarEdge SE3000H-US (120/240V) (Page D3)
7	1 (N) 100A PV Load Center (120/240V)
8	1 (N) 60A Fused AC Disconnect (120/240V)
9	2 (E) 200A Main Service Panel (120/240V, 1φ, 3W) (Inside the Basement)
10	(E) Utility Meter (120/240V, 1φ, 3W)

WIRE TAG#	WIRE TYPE/QTY/SIZE COPPER	GRD-SIZE	WIRE AMP	TERMINAL RATING	CONDUIT TYPE	CONDUIT RUN	TEMP. CORRECTION	AMP. ADJ C.C.C	CURRENT
A	PV WIRE (2) #10	#6, BARE CU	40A	90°	OPEN AIR	>3.5 - 12"	0.71	1	28.4 > 18.8A
В	THWN-2 (6) #8 (3) DC + (3) DC -	#8, EGC CU	55A	90°	1" EMT 1" PVC 1" EMT	ABOVE GROUND UNDER GROUND ALONG THE WALL	0.71	0.8 (6 WIRES)	31.2 > 18.8A
С	THWN-2 (3) #8 (L1,L2,N)	#8, EGC CU	55A	90°	3/4" EMT	ALONG THE WALL	0.91	1	50.1 > 31.3A
D	THWN-2 (3) #10 (L1,L2,N)	#8, EGC CU	40A	90°	3/4" EMT	ALONG THE WALL	0.91	1	36.4 > 15.6A
E	THWN-2 (3) #6 (L1,L2,N)	#8, EGC CU	75A	90°	3/4" EMT	ALONG THE WALL	0.91	1	68.3 > 46.9A

#### PV SYSTEM OUTPUT CALCULATION

MAX DC OUTPUT: 340W \* 32 = 10.88kW MAX AC OUTPUT: 9.0kW

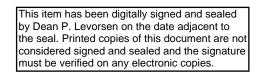
(10)

L2

200A END

FEED MAIN

OCPD



(1st) STRING OF 11 OPTIMIZERS #1 INVERTER (2nd) STRING OF 11 OPTIMIZERS #1 INVERTER (3rd) STRING OF 10 OPTIMIZERS #2 INVERTER

Strings 1 & 2

G N L11

String 3



07/27/2021

( <u>8</u> )

2x60A Fuses

651 W. GALENA PARK BLVD. STE. 101 PHONE (801) 990-1775

Firm License Number: COA 26626 VSE Project Number: U2620.0901.211

Digitally signed by Dean P Levorsen Dean P Levorsen Date: 2021.07.27 15:26:19 -06'00'

Line Side tap connection with ilsco connectors (see spec sheet page, D9)

TO UTILITY GRID

200A END **(2**) <u>(9</u>) FEED MAIN OCPD

ARRAY A LG SOLAR 340W (10) MODULES WIRED IN (3RD) SERIES OF (10)

**OPTIMIZERS** 

ARRAY A

LG SOLAR 340W (11) MODULES WIRED

IN (1ST) SERIES OF (11)
OPTIMIZERS

ARRAY A

LG SOLAR 340W

(11) MODULES WIRED IN (2ND) SERIES OF (11)

**OPTIMIZERS** 

SCHEDULE 40 PVC CONDUIT BURIED MINIMUM 18"

FILL AND COMPACT

SOIL IN TRENCH ON

TOP OF CONDUIT

WARNING RIBBON

12" ABOVE CONDUIT

Under [B]

Ground

Under .

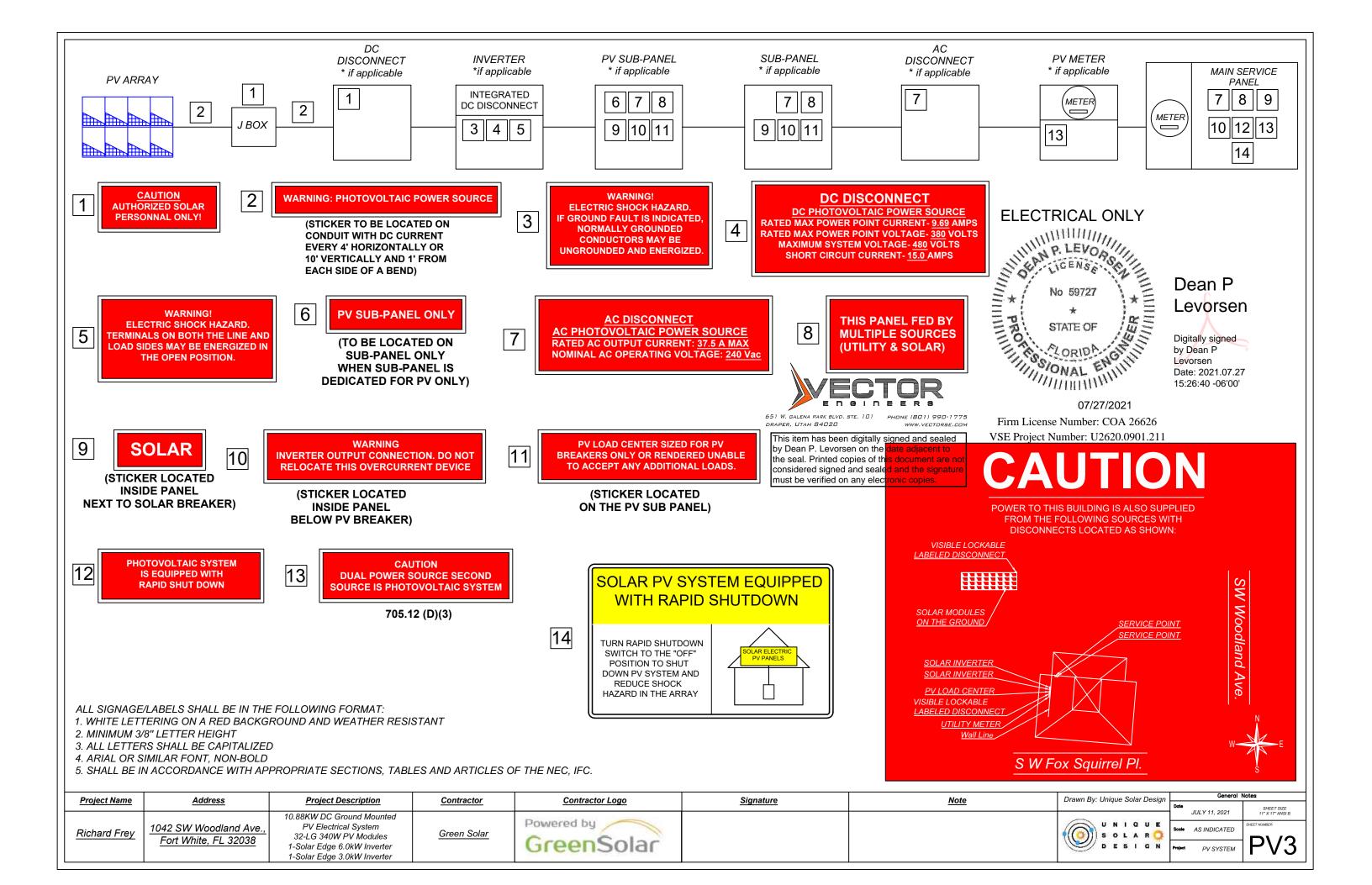
:...Ground ::::

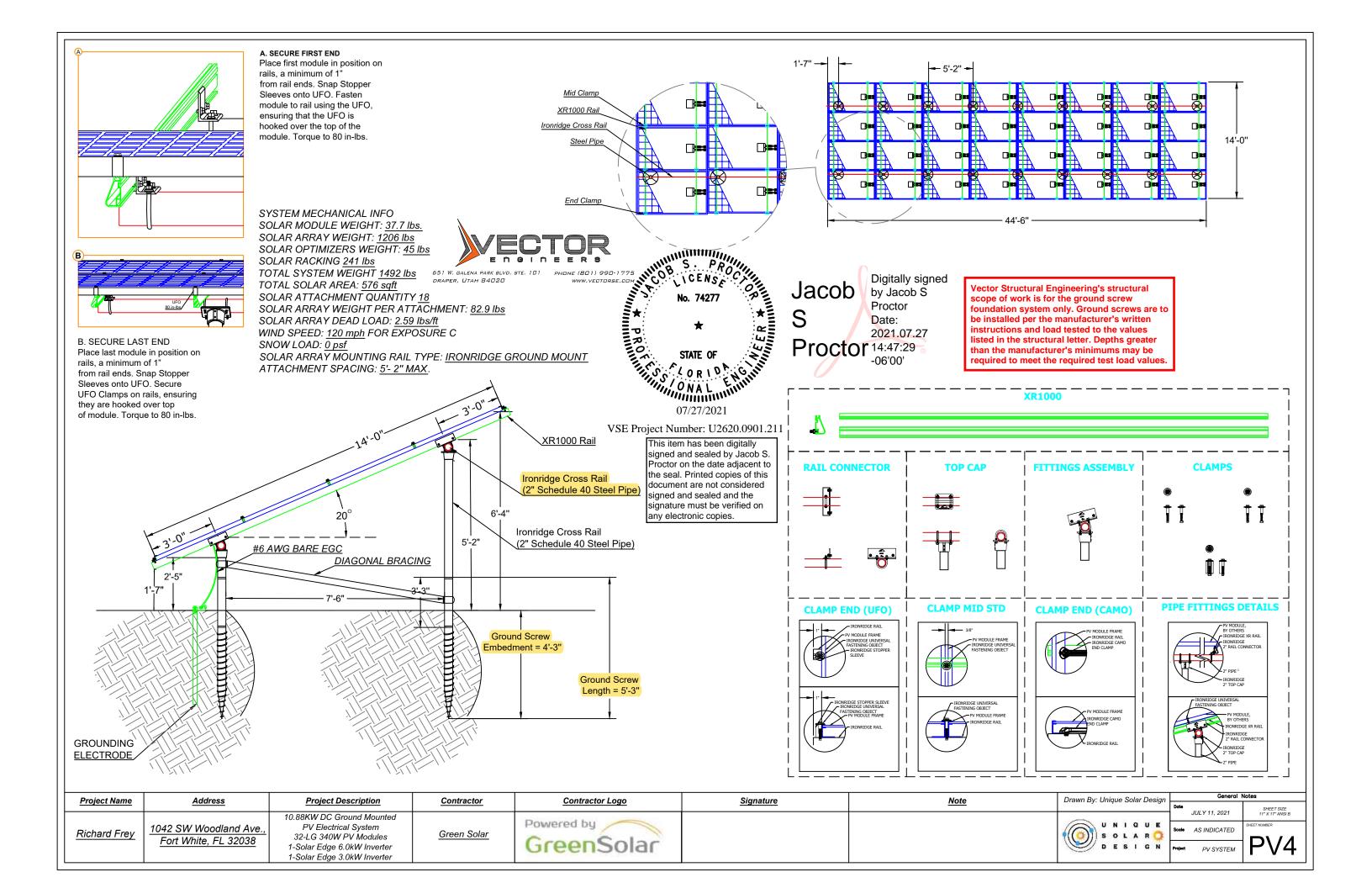
~160 Feet-

8' Minimum Embedment Rod at 6' From Equipment Ground Conductor Unless Existing Ground is UFER.

Photovoltaic system is rapid shut down ready

Project Name	Address	Project Description	Contractor	Contractor Logo	Signature	Note	Drawn By: Unique Solar Design	General Notes
	Address  1042 SW Woodland Ave., Fort White, FL 32038	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules 1-Solar Edge 6.0kW Inverter	<u>Contractor</u> <u>Green Solar</u>	Powered by Green Solar	<u>Signature</u>	<u>Note</u>	U N I Q U E S O L A R O	JULY 11, 2021 Scale AS INDICATED Scale AS INDICATED
		1-Solar Edge 3.0kW Inverter		Orcensola				Project PV SYSTEM





# LG NeON®2 Black

LG340N1K-V5 | LG335N1K-V5 | LG330N1K-V5

## 340W | 335W | 330W

The LG NeON® 2 Black is LG's best selling solar module. It is one of the most powerful and versatile modules on the market today. Featuring LG's Cello Technology, the LG NeON® 2 Black optimizes power output. New updates include an extended performance warranty of 90%, delivering customers a greater sense of reliability and peace of mind.











#### Features



#### Roof Aesthetics

LG NeON® 2 Black has been designed with aesthetics in mind using thinner wires that appear all black at a distance. The LG NeON® 2 Black can increase the value of a your home with its modern design.



#### Better Performance on Sunny Days

LG NeON® 2 Black now performs better on sunny days, thanks to its improved temperature coefficient.



Enhanced Product Warranty

LG provides the product warranty of the LG NeON® 2 Black to an industry-leading 25



#### Enhanced Performance Warranty

LG NeON® 2 Black has an enhanced performance warranty. After 25 years, LG NeON® 2 Black is guaranteed to perform at minimum 90.0% of initial performance.

# LG NeON®2 Black

#### Preliminary

#### LG340N1K-V5 | LG335N1K-V5 | LG330N1K-V5

Cell Properties (Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	60 Cels (6 x 10)
Number of Busbars	1.2 EA
Module Dimensions (L x W x H)	1,586mm × 1,016mm × 40 mm
Veight	17.1 kg
Slass (Material)	Tempered Glass with AR coating
Backsheet (Color)	Black
Frame (Material)	Anadized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,000 mm x 2 EA
Connector (Type / Maker)	MC4 / MC

#### Electrical Properties (STC\*)

Model		LG340N1K-V5	LG335N1K-V5	LG330N1K-V5
Maximum Power (Pmax)	[W]	340	335	330
MPP Voltage (Vmpp)	[V]	34.9	34.5	34.1
MPP Current (Impp)	[A]	9.75	9.72	9.69
Open Circuit Voltage (Voc)	[V]	41.2	41.1	41.0
Short Circuit Current (Isc)	[A]	10.35	10.31	10.27
Module Efficiency	[%]	19.8	19.6	19.3
Power Tolerance	[%]		0-+3	0

<sup>\*</sup> STC (Standard Test Condition): Irradiance 1000 W/m, Cell temperature 25 °C, AM 1.5,

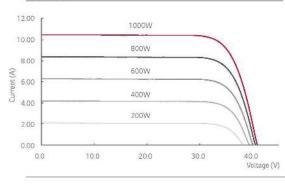
NMOT*	( °C )	42 ± 3	
Pmax	[%/°C]	-0.36	
Voc	[%/°C]	-0.27	
Isc	[%/°C]	0,03	

<sup>\*</sup> NMOT (Nominal Module Operating Temperature) : Irradiance 800 W/m², Ambient temperature 20°C, Wind speed 1 m/s, Spectrum AM 1.5

#### Electrical Properties (NMOT)

Model		LG340N1K-V5	LG335N1K-V5	LG330N1K-V5	
Maximum Power (Pmax)	[W]	254	250	247	
MPP Voltage (Vmpp)	[V]	32.7	32.3	31.9	
MPP Current (Impp)	[A]	7.77	7.75	7,73	
Open Circuit Voltage (Voc)	[V]	38.7	38.6	38.5	
Short Circuit Current (Isc)	[A]	8.32	8.29	8.26	

#### I-V Curves



#### Certifications and Warranty

	IEC 61215-1/-1-1 / 2:2016, IEC 61730-1/2:2016		
Certifications	ISO 9001, ISO 14001, ISO 50001		
	OHSAS 18001		
Salt Mist Corrosion Test	IEC 61701 : 2012 Severity 6		
Ammonia Corrosion Test	IEC 6271 6 : 201 3		
Fire Rating	Class C (UL 790)		
Solar Module Product Warranty	25 Years		
Solar Module Output Warranty	Linear Warranty*		

<sup>\* 1) 1</sup>st years : 98%, 2) After 1st year : 0.33% annual degradation, 3) 90.08% for 25 years

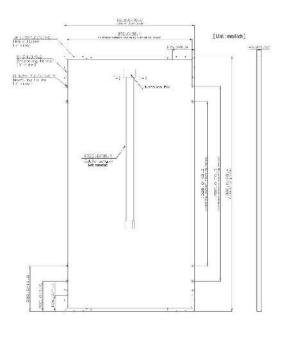
#### **Operating Conditions**

Operating Temperature	[C]	-40 - +90
Maximum System Voltage	[V]	1000 (UL), 1000 (IEC)
Maximum Series Fuse Rating	[A]	20
Mechanical Load* (Front)	[Pa]	5,400 / 113
Mechanical Load* (Rear)	[Pa]	4,000 / 84

#### Packaging Configuration

Number of Modules per Pallet	[EA]	25
Number of Modules per 40ft HQ Container	[EA]	650
Packaging Box Dimensions (L x W x H)	[mm]	1,750 x 1,120 x 1,221
Packaging Box Gross Weight	[kq]	464

#### Dimensions (mm / inch)



Project Name	<u>Address</u>	Project Description	Contractor	Contractor Logo	Signature	<u>Note</u>	Drawn By: Unique Solar Design	General	Notes
Froject Name	Address	Froject Description	Contractor	Contractor Logo	<u>Signature</u>	Note	Brawn By: Ornque Goldi Beolgii	Date	SHEET SIZE 11" X 17" ANSI B
Richard Frey	1042 SW Woodland Ave., Fort White, FL 32038	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules 1-Solar Edge 6.0kW Inverter	Green Solar	GreenSolar			U N I Q U E S O L A R O D E S I G N	JULY 11, 2021  Scale AS INDICATED  Project PV SYSTEM	11" X 17" ANSI B  SHEET NUMBER

<sup>\*</sup> Manufacturer Declaration according to IEC 61215 : 2005
\* Mechanical Test Loads 5,400 Pa / 4,000 Pa based on IEC 61215-2 : 2016
(Test Load ~ Design Load x Safety Factor(1.5))

# **Power Optimizer**

For North America

P320 / P340 / P370 / P400 / P405 / P505





## PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- / Up to 25% more energy
- Superior efficiency (99.5%)
- / Mitigates all types of module mismatch losses, from manufacturing tolerance to partial
- Flexible system design for maximum space utilization

- Fast installation with a single bolt
- / Next generation maintenance with modulelevel monitoring
- / Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- / Module-level voltage shutdown for installer and firefighter safety

solaredge.com



## / Power Optimizer For North America

P320 / P340 / P370 / P400 / P405 / P505

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high- power 60-cell modules)	P370 (for higher- power 60 and 72-cell modules)	P400 (for 72 & 96- cell modules)	P405 (for thin film modules)	P505 (for higher current modules)	
INPUT					V:-		
Rated Input DC Power®	320	340	370	400	405	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	19	48	50	80	1255	839	Vdc
MPPT Operating Range	8	- 48	8 - 60	8 - 80	12.5 - 105	12.5 - 83	Vdc
Maximum Short Circuit Current (isc)		11	4	10	2.1	14	Adc
Maximum DC Input Current		13.75		12	.63	17.5	Adc
Maximum Efficiency			99	.5			96
Weighted Efficiency			98.8			98.6	26
Overvo tage Category				L			
<b>OUTPUT DURING OPER</b>	ATION (POWE	R OPTIMIZER C	ONNECTED TO	OPERATING SO	LAREDGE INVER	RTER)	
Maximum Output Current			4	5			Adc
Maximum Output Voltage		i	50		8	5	Vdc
INVERTER OFF) Safety Output Voltage per Power Optimizer			1±	0.1			Vdc
STANDARD COMPLIAN	CE						-
EMC	0	FC	CC Parc15 Class B, IFC1	1000-6-2, IFC61000-6	s-3		T
Safety			IEC62109-1 (class	Il safety), UL1741			
RcHS			Y	3			
INSTALLATION SPECIFIC	CATIONS						
Maximum: Allowed System Voltage			10	00			Vdc
Compatible inverters		ALS	olarEdge Single Phase	and Three Phase invi	erters.		
Dimensions (W x L x H)	121	9 x 153 x 27.5 / 5.1 x 6	x 11	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm/i
Weight (including cables)		630 / 1.4		750 / 1.7	845 / 1.9	1064 / 2.3	gr / b
Input Connector			MC	40			
Output Wire Type / Connector			Double Inst	ılated; MC4			
Output Wire Length	0.95	/3.0		1.2 ,	/3.9		m/ft
Input Wire Length			0.16.)	0.52			m/fl
Operating Temperature Range			-40 - 185 /	-40 - +185			*C/*F
Protection Rating			IP68 / N	IEMA6P			
Relative Humidity			0 -	105			96

- T Rated STC power of the module. Module of up to +5% power tolerance allowed 4 NSC 2017 requires max input voltage be not more than 80V E For other connector types please contact SolarEdge

PV System De a SolarEdge	esign Using Inverter <sup>(4)(5)</sup>	Single Phase HD-Wave	Single phase	Three Phase 208V	Three Phase 480V	
Minimum String Length	P320, P340, P370, P400	8	i	10	18	
(Power Optimizers)	P405 / P505	8		8	14	
Maximum String Length (Power Optimizers)		2	5	25 50 <sup>58</sup>		
Maximum Power per Szír	rg	5700 (6000 with SE7600-US - SE11400- US)	5250	5000 <sup>(7)</sup>	12750 <sup>30</sup>	W
Parallel Strings of Differen or Orientations	t Lengths			Yes		

- M. For detailed string sizing information refer to: http://www.sclaredge.com/sites/cistaut/files/string.sizing.na.pdf

  18. It is not a lowed to mix PADS/PSUS with PADO/PSUS/PADS in one string

  19. A string with more than 30 continuous does not meen NEC rapid shutdown requirements, safety voltage will be above the 30V requirement.

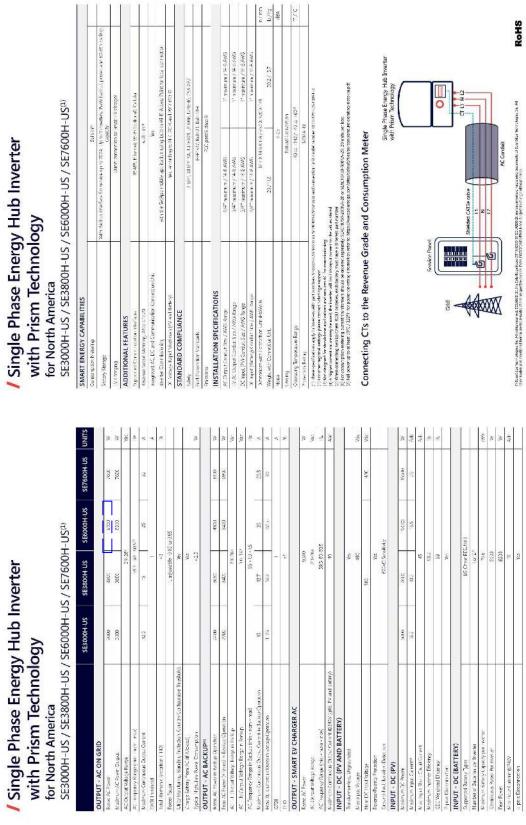
  19. Ear SEP/ARX/SEP/32/US. It is allowed to install up to SEOV by string when 3 strings are connected to the inverter (3 strings per unit for SE43.2KUS) and when the maximum power difference between the strings is a to 1,000V.

  19. For SEOVINGS-SE3.38/US.SFOR.68/US.SFOR.58/US.SF. It is allowed to install up to 15.000W per string when 3 strings are connected to the inverter (3 strings per unit for SE65.68/US/SEI00KUS) and when the maximum power difference between the strings is up to 2,000W.

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CE ROHS

10.88KW DC Ground Mounted  PV Flectrical System  PV Flectrical System	Project Name	<u>Address</u>	Project Description	Contractor	Contractor Logo	<u>Signature</u>	<u>Note</u>	Drawn By: Unique Solar Design	General 1	lotes
FOIT WHITE, FL 32030   4 0 1 0 5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Richard Frey	1042 SW Woodland Ave.,	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules	<u>Contractor</u> <u>Green Solar</u>	Powered by  GreenSolar	Signature	Note	UNIQUE SOLAR	JULY 11, 2021	SHEET SIZE 11" X 17" ANSI B  SHEET NUMBER





SE3000H-US / SE3800H-US / SE5000H-US / SE6000
SE7600H-US / SE10000H-US / SE11400H-US
JOINTON SERIORALIS SERIOR

OUTPUT								
Sated AC Roam Chips.	0000	9800 (C) 2400 (ARC (C) 2000	8009	1610 (f) 2400 3400 (g) 278V	2803	CCCT	1433 (8.743) 1200 (8.745)	5
Machin AC Pover Supus	3330	Micco Nice	800	VALC 8 0003	7670	0000	71421 (0.1241) VIDA (0.000)	5
At Outoutholage Min. Not. History (211 - 250 - 250)	,	٠	>		>	-5:	٠.	¢
AC Dienat Valenge Min. Nort, Kiax. (188-238-1176	ia.	s		s.				25
AC frequency (Namins.)				15.00 00 4.62				3
Mernum Continuous Outrati Curent @2402	6.0	350	N.	N	32	¥	577	45
Merchanica (municidado) Cumos 92789	7	c		8	8	*	399	*
Power factor		4		1 × catace < 05 to 0.85	97	6		-
Utility Vorienting Sheding Policitor, Contry Configura-				- 31				
INPUT								
Macman 30 Power (BRIDY	4550	282	30.00	2025	USSIT	15593	35961	3:
Machini DC Nove (2005)		230	•	7753			(023)	90
care medes. Hege reded				j				
Macram nacrothaga				200				蓼
Stemhol DC Input Pollage		500				430	7	ii.
Market nach ener (abwieß)	er or	10.9	10°	16 %	8	22	30%	Acc
Macinum naugument grabble?		ar		19.2		£).	N	Age.
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solaredge

Optional: Revenue grade (Class 0.5 (0.5% accuracy)

Integrated are fault protection and rapic shutdown for NEC 2014 and 2017, per art 690.11 and 690.12

Euilt in module level monitoring
Outdoor and indoor installation

renter commissioning directly is using the SolarEdge SetApp ter for longer strings

🕴 Extremely small

Specifically designed to work to power optimizers Record-breaking efficiency

/ UL1741 SA cer

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Project Name	<u>Address</u>	Project Description	Contractor	Contractor Logo	<u>Signature</u>	<u>Note</u>	Drawn By: Unique Solar Design	General	Notes
				<u> </u>				JULY 11, 2021	SHEET SIZE 11" X 17" ANSI B
Richard Frey	1042 SW Woodland Ave., Fort White, FL 32038	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules 1-Solar Edge 6.0kW Inverter 1-Solar Edge 3.0kW Inverter	<u>Green Solar</u>	GreenSolar			UNIQUE SOLARO DESIGN	Scale AS INDICATED  Project PV SYSTEM	SHEET NUMBER  D3

Datashee



## **Ground Mount System**



#### Mount on all terrains, in no time.

The IronRidge Ground Mount System combines our XR1000 rails with locally-sourced steel pipes to create a cost-effective structure capable of handling any site or terrain challenge.

Installation is simple with only a few structural components and no drilling, welding, or heavy machinery required. In addition, the system works with a variety of foundation options, including concrete piers and driven piles.



#### Rugged Construction

Engineered steel and aluminum components ensure durability.



#### Simple Assembly

Just a few simple components and no heavy equipment.



#### Flexible Architecture

Multiple foundation and array configuration options.



#### PE Certified

Pre-stamped engineering letters available in most states.



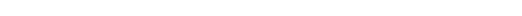
#### **Design Software**

Online tool generates engineering values and bill of materials.



#### 20 Year Warranty

Twice the protection offered by competitors.





## Top Caps

# ÛÛ

#### MAN ...

**Rail Connectors** 



Attach Rail Assembly to horizontal pipes.

#### **Diagonal Braces**



Provide additional support where required.

#### Schedule 40 Pipes



Locally-sourced pipes serve as primary structure.

#### Rail Assembly

horizontal pipes.

Connect vertical and

#### XR1000 Rails



Curved rails increase spanning capabilities.

#### **Top-Down Clamps**



Secure modules to rails and substructure.

#### **Under Clamps**



Alternative clamps for preattaching modules to rails.

#### Accessories



Wire Clips and End Caps provide a finished look.

#### Resources



#### **Design Assistant**

Go from rough layout to fully engineered system. For free. Go to ironridge.com/gm



#### **NABCEP Certified Training**

Earn free continuing education credits, while learning more about our systems.

Go to ironridge.com/training

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Project Name	<u>Address</u>	Project Description	Contractor	Contractor Logo	<u>Signature</u>	<u>Note</u>	Drawn By: Unique Solar Design	General I	Notes
	1042 SW Woodland Ave., Fort White, FL 32038	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules 1-Solar Edge 6.0kW Inverter 1-Solar Edge 3.0kW Inverter	Green Solar	Powered by GreenSolar	Signature	<u></u>	U N I Q U E S O L A R O	Date         JULY 11, 2021           Scale         AS INDICATED           Project         PV SYSTEM	SHEET SIZE 11"X17"ANSI B SHEET NUMBER

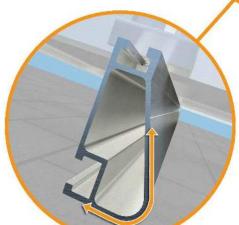


## XR Rail Family

#### 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.

#### Compatible with Flat & Pitched Roofs



XR Rails are compatible with FlashFoot and other pitched roof attachments.



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

#### **Corrosion-Resistant Materials**

All XR Rails are made of marine-grade 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 6 foot spans, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear anodized finishInternal splices available



#### XR100

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 8 feet.

- · 8' 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 12 feet or more for commercial applications.

- 12' spanning capability
- Extreme load capability
- Clear anodized finishInternal splices available

#### **Rail Selection**

The following table was prepared in compliance with applicable engineering codes and standards. Values are based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope of 7 to 27 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed span tables and certifications.

Lo	ad			Rail	Span		
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'
	100						
None	120						
None	140	XR10		XR100		XR1000	
	160						
	100						
10.00	120						
10-20	140						
	160						
30	100						
30	160						
40	100						
40	160						
50-70	160						
80-90	160						

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Project Name	<u>Address</u>	Project Description	Contractor	Contractor Logo	<u>Signature</u>	<u>Note</u>	Drawn By: Unique Solar Design	General I	Notes
Trojectivanie	<u>Address</u>	1 Toject Description	Contractor	Contractor Logo	<u>Signature</u>	<u> </u>		Date JULY 11, 2021	SHEET SIZE 11" X 17" ANSI B
Richard Frey	1042 SW Woodland Ave., Fort White, FL 32038	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules 1-Solar Edge 6.0kW Inverter 1-Solar Edge 3.0kW Inverter	<u>Green Solar</u>	GreenSolar			UNIQUE SOLAR O DESIGN	Scale AS INDICATED  Project PV SYSTEM	SHEET NUMBER  D5



8431 Murphy Drive Middleton, WI 53562 USA

Telephone: 608.836.4400 Facsimile: 608.831.9279 www.intertek.com

## **Test Verification of Conformity**

In the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the requirements of the referenced specifications at the time the tests were carried out.

Applicant Name & Address:

IronRidge, Inc. 1495 Zephyr Ave. Hayward, CA 94544

USA

**Product Description:** 

XR Rails with Integrated Grounding.

**Ratings & Principle** 

Fire Class Resistance Rating:

Characteristics:

-Tilt Mount (Asymmetrical). Class A Fire Rated for Low Slope applications with Type1, 2 and 3, listed photovoltaic modules. Class A Fire Rated for Steep Slope applications when using Type 1 and 2, listed photovoltaic modules. Angle of tilt allowed by the systems is any greater than or

equal to 10 and specified in the installation instructions. A minimum of a 3" anchor and a minimum of a 6" tilt-leg is required. No perimeter guarding is required.

Models:

51-61GD-005, 51-61GD-005B, 51-5000-001 and 51-65-001

**Brand Name:** 

IronRidge Roof Mount

UL 2703 (Section 15.2 and 15.3) Standard for Safety Mounting Systems, Mounting Devices, **Relevant Standards:** 

Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels, First Edition dated Jan. 28, 2015 Referencing UL1703 Third Edition dated Nov. 18, 2014, (Section 31.2) Standard for Safety for Flat-Plate Photovoltaic Modules and Panels.

**Verification Issuing Office:** Intertek Testing Services NA, Inc.

8431 Murphy Drive

Middleton, WI 53562 08/27/2014 to 03/17/2015

Date of Tests:

Test Report Number(s): 101769343MID-001r1, 101769343MID-001a, 101915978MID-001 & 101999492MID-001ar1-cr1.

This verification is part of the full test report(s) and should be read in conjunction with them. This report does not automatically imply product certification.

Completed by:

Chad Naggs

Technician II, Fire Resistance

Reviewed by: Gregory Allen

Engineering Team Lead, Fire Resistance Title:

Signature: Date:

Title:

03/30/2015

Signature: Date: 03/30/2015

This Verification is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to permit copying or distribution of this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

GFT-OP-11a (24-MAR-2014)

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Project Name Address Project Description	Contractor	Contractor Logo	Signature	<u>Note</u>	Drawn By: Unique Solar Design	General Notes
Richard Frey    1042 SW Woodland Ave., Fort White, FL 32038   10.88KW DC Ground Mou. PV Electrical System 32-LG 340W PV Module 1-Solar Edge 6.0kW Investigation 1-Solar Edge 3.0kW Investigation 1-Sol	Green Solar	Powered by GreenSolar	Signature	Note	U N I Q U E S O L A R O	Date JULY 11, 2021 SHEET SIZE 11**X17**ANSI B  Scale AS INDICATED SHEET MARGER  Project PV SYSTEM



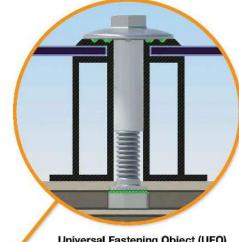
#### Simplified Grounding for Every Application

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.



## **UFO Family of Components**



#### 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.



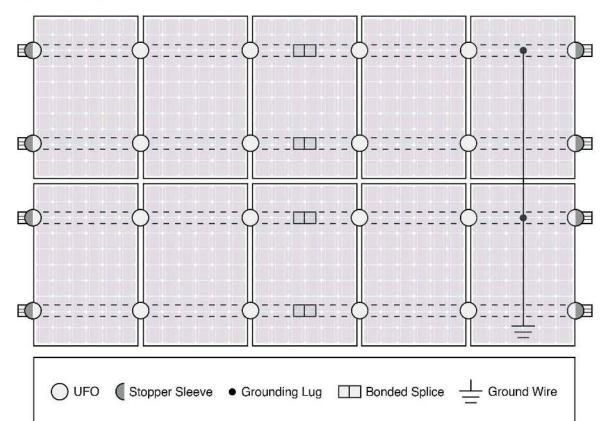
### Grounding Lug

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	•	~	XR1000 Only
UFO/Stopper	~	~	~
Bonded Splice	~	~	N/A
Grounding Lugs	1 per Row	1 per Row	1 per Array
Microinverters & Power Optimizers	Darfon - M	0-72, M250-60, M2 IG240, MIG300, 0 P320, P400, P405	1/2/1
Fire Rating	Class A	Class A	N/A
Modules		ted with over 400 lation manuals for	(B)

Project Name	<u>Address</u>	Project Description	Contractor	Contractor Logo	Signature	<u>Note</u>	Drawn By: Unique Solar Design	General Notes
1 Toject Name	Address	Floject Description	Contractor	Contractor Logo	Signature	<del>Note</del>	Brawn By: Omque Goldi Beolgii	Date SHEET SIZE  JULY 11, 2021 11" X 17" ANSI B
Richard Frey	1042 SW Woodland Ave., Fort White, FL 32038	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules 1-Solar Edge 6.0kW Inventor	<u>Green Solar</u>	GreenSolar			U N I Q U E S O L A R O D E S I G N	Scale AS INDICATED  Project PV SYSTEM  JULY 11, 2021  SHEET MUMBER  TY TY THANSIB  SHEET MUMBER  TY TY THANSIB

## **Earth Anchor Installation:**

## **Product Specification**

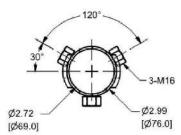
BASIC INFORMATION	
Part Number	K10414-XXX
Description	10" Helix Blade Auger
Lengths (-079)	79 inches
Auger Diameter	2.71" [69mm] ID 2.99" [76mm] OD
Attachment Hardware	3X M16 Set Screws (included)
Material	#45 Structural Carbon Steel
Finish	Hot Dip Galvanized
Approximate Weight	23.1 lbs [10,5 kg]

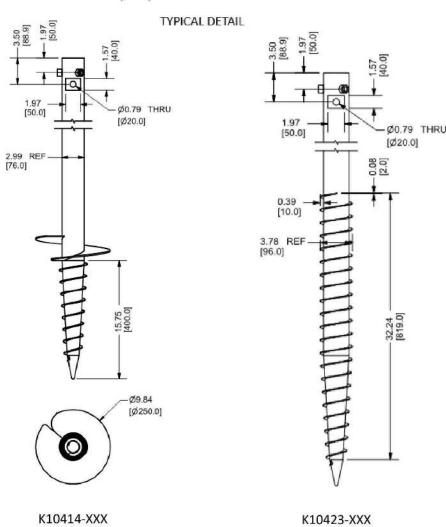
BASIC INFORMATION	
Part Number	K10423-XXX
Description	Screw Anchor
Lengths (-063   -080)	63 inches   80 inches
Auger Diameter	2.71" [69mm] ID 2.99" [76mm] OD
Attachment Hardware	3X M16 Set Screws
Material	#45 Structural Carbon Steel
Finish	Hot Dip Galvanized
Approximate Weight	18.1 lbs [8,2 kg] 23.1 lbs [10,5 kg]



## **Earth Anchor Installation:**

# **Product Specification**







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Project Name	ct Name Address Project Description		Contractor	Contractor Logo	<u>Signature</u>	<u>Note</u>	Drawn By: Unique Solar Design	General Notes	
<u>i roject rame</u>	Audress		Contractor	Contractor Logo	<u>Signature</u>	<u> Hote</u>		Date JULY 11, 2021	SHEET SIZE 11" X 17" ANSI B
Richard Frey	1042 SW Woodland Ave., Fort White, FL 32038	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules 1-Solar Edge 6.0kW Inverter 1-Solar Edge 3.0kW Inverter	<u>Green Solar</u>	GreenSolar			UNIQUE SOLAR O DESIGN	·	SHEET NUMBER  D8

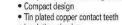


## KUP-L-Tap® **Insulation Piercing Connectors Dual Rated**









- Insulation piercing · Perforated end tabs
- · Pre-filled with silicone lubricant
- · Increased safety
- · Horizontal line grid
- Temperature rating 90° C

- Provides high degree of breakage resistance and long dependable use Saves space
- · Easily penetrates most types of insulation
- . No need to strip the conductor which saves installation time
- Break out easily by hand
- · Prevents oxidation and moisture from entering the contact area
- · Can be used as a splice or tap connector
- · Contains no external energized parts. Can be installed "hot" on energized conductors providing tap conductor is not under load.
- · Provides a visual guide for proper installation of conductors













Catalog	Figure	Wire	Range		Current	Rating	D	imension	s	Torque	Bolt Head
Number	Number	Main	Тар	Volts	CU	AL	L	W	Н	Ft. Lbs.	Size
IPC-1/0-2	3	1/0-8	2-8	300 (480 Grounded Y System)	130	100	1-7/32	1-15/32	2-5/16	16	1/2
IPC-4/0-6	2	4/0-4	6-14	600	75	60	1-27/64	1	1-7/8	13	1/2
IPC-4/0-2/0	3	4/0-2	2/0-6	600	195	150	1-21/32	1-7/8	2-7/8	25	1/2
IPC-250-4/0	2	250kcmil-1	4/0-6	600	260	205	1-7/8	2-11/32	3-11/32	30	5/8
PC-350-4/0	3	350kcmil-4/0	4/0-10	300 (480 Grounded Y System)	260	205	1-43/64	2-7/16	3-1/8	25	5/8
IPC-350-350	4	350kcmil-4/0	350kcmil-4/0	300 (480 Grounded Y System)	350	280	2-43/64	2-23/32	3-1/4	25	5/8
PC-500-12	1	500kcmil-250kcmil	10-12	300 (480 Grounded Y System)	40	35	1-43/64	2-7/16	3-1/4	25	5/8
IPC-500-250	1	500kcmil-250kcmil	250kcmil-4	600	290	230	2-27/64	2-29/32	3-3/4	55	5/8-11/16
PC-500-500	1	500kcmil-300kcmil	500kcmil-250kcmil	600	430	350	3-3/16	3-5/8	5	75	7/8-7/8
IPC-750-500	1	750kcmil-500kcmil	500kcmil-350kcmil	600	430	350	3-3/16	3-5/8	5	75	7/8-7/8

All wire sizes, unless noted otherwise, are American Wire Gauge (AWG) Tested to UL 486A/B, UL File E6207



#### INFORMATION SHEET

#### KUP-L-Tap, Insul-Eater Single Use Insulation Piercing Connectors

#### 1) Specifications:

Conductors - Class B or C Aluminum and or Copper wires Temperature rating - 90°C

Item ID	Run	Тар	Torque (in-lbs)	Tools (Socket & Box wrenches)	Voltage
IPC-1/0-2	1/0 - 8 AWG	#2 - #8 AWG	192	1/2"	300 (480 grounded Y system)
IPC-4/0-6	4/0 - #4 AWG	#6 - #14 AWG	156	1/2"	600
IPC-4/0-2/0 * +	4/0 - #2 AWG	2/0 - #6 AWG	300	1/2"	600
IPC-250-4/0 * #	250 kcmil-#1 AWG	4/0 - #6 AWG	360	5/8"	600
IPC-350-4/0	350 kcmil-4/0	4/0 - #10 AWG	300	5/8"	300 (480 grounded Y system)
IPC-350-350	350 kcmil-4/0	350 kcmil-4/0	300	5/8"	300 (480 grounded Y system)
IPC-500-12	500-250 kcmil	#10-#12 AWG	300	5/8"	300 (480 grounded Y system)
IPC-500-250	500-250 kcmil	250 - #4 AWG	720	5/8" & 11/16"	600
IPC-500-500 *	500-300 kcmil	500-250 kcmil	900	7/8"	600
IPC-750-500 *	750-500kcmil	500-350kcmil	900	7/8"	600

<sup>\*</sup> Can be used on bare wire or bare & insulated wire combinations

- \* When used on bare conductor, break out the tabs and extend wire 1.5 2" beyond the connector body.
- + Tap side is limited to .528" OD including the insulation.
- # Max OD on the main is .730" inculding insulation

-IPC-250-4/0 & IPC-4/0-2/0- To insure the top and bottom are aligned -There are lines on the side of the connector to help.

#### 2) Installation Instructions For Use as a Run and Tap:

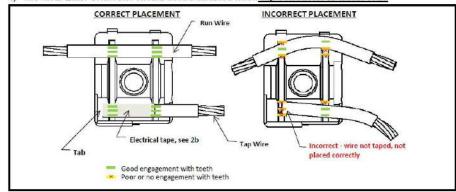
- a) Remove the tab blocking the Main conductor groove with screwdriver or pliers.
- Tap must be broken cleanly to the bottom of the channel.
- b) Cut insulated cable end squarely and apply a crisscrossed layer of UL listed electrical tape over the exposed end of the wire. Tape the exposed wire end with Two pieces of <u>tape</u> measuring approximately three inches long.
- c) Separate the connector halves by loosening the bolt.
- d) Slide the connector over the run conductor.
- e) Insert the <u>tap</u> conductor until it <u>butts</u> up against the <u>tab.</u>

#### BE SURE THE TAP CONDUCTOR IS ALL THE WAY THROUGH THE CONNECTOR.

- f) Center both conductors over the piercing teeth, and finger tighten the bolt.
- (Refer to the diagram below for correct placement of conductors)
- g) Holding the connector firmly in your hand, tighten the bolt to the torque in the above table.
- Click For YouTube Video

#### 3) Additional Information

- a) Connector can be used on BUILDING CODE (Stranded CLASS B or C) wire either copper and/or aluminum conductors
- b) The Insul-Eater is **fully** insulated without an external cover or tape
- c) The Insul-Eater connector should not be installed when tap conductor is under load



Form 73 Revised 6-15-2016

4730 Madison Road, Cincinnati OH 45227-1426 | PH: 513.533.6200 | FAX: 513.871.4084 | www.ilsco.com In Canada: 1050 Lakeshore Road East, Mississauga, Ontario, Canada L5E 1E4 | PH: 905.274.2341 | FAX: 905.274.8763

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Project Name	Address	Project Description	Contractor	Contractor Logo	Signature	Note	Drawn By: Unique Solar Design	General Notes
Richard Frey	Address  1042 SW Woodland Ave., Fort White, FL 32038	10.88KW DC Ground Mounted PV Electrical System 32-LG 340W PV Modules	<u>Contractor</u> <u>Green Solar</u>	Powered by	<u>Signature</u>	<u>Note</u>	U N I Q U E S O L A R O	Date         JULY 11, 2021         SHEET SIZE 11" X 17" ANSI B           Scale         AS INDICATED         SHEET NUMBER
	1 Oil Wille, FL 32038	1-Solar Edge 6.0kW Inverter 1-Solar Edge 3.0kW Inverter		GreenSolar			DESIGN	Project PV SYSTEM D9