SCOPE OF WORK:

TO INSTALL A ROOF MOUNTED SOLAR PHOTOVOLTAIC SYSTEM AT THE OWNER RESIDENCE LOCATED AT 70 CALABOR COURT FUQUAY-VARINA, NC 27526. THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY

GRID THROUGH THE EXISTING ELECTRICAL SERVICE EQUIPMENT. THE PV SYSTEM DOES NOT INCLUDE STORAGE BATTERIES

EQUIPMENT SUMMARY

35 LG ELECTRONICS LG360N1K-E6 MODULES

01 SOLAREDGE SE10000H-US INVERTER

35 SOLAREDGE POWER OPTIMIZER P370

GENERAL NOTES:

- THESE CONSTRUCTION DOCUMENTS HAVE BEEN BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS IN CONSTRUCTION DETAILS.
- ARCHITECT HAS NOT BEEN RETAINED TO SUPERVISE ANY CONSTRUCTION OR INSTALLATION OF ANY EQUIPMENT AT SITE.
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, OBTAINS ALL PERMITS, LICENSES AND PAY ALL REQUIRED FEES AND COMPLETE INSTALLATION.
- CONTRACTOR HAS THE FULL RESPONSIBILITY TO CHECK AND VERIFY ALL DIMENSIONS ٠ AND EXISTING CONDITIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ANY WORK STARTED BEFORE CONSULTATION AND ACCEPTANCE BY THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CORRECTION BY THEM WITHOUT ADDITIONAL COMPENSATION.
- DAMAGE CAUSED TO THE EXISTING STRUCTURE, PIPES, DUCTS, WINDOWS, WALL . FLOORS, ETC. SHALL BE REPAIRED TO THE ORIGINAL CONDITION OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED MATERIALS.
- . NO CHANGES ARE TO BE MADE WITHOUT THE CONSULTATION AND APPROVAL OF THE ARCHITECT.
- CONTRACTOR SHALL OBTAIN BULDING PERMIT. NO WORK TO START UNLESS BUILDING ٠ PERMIT IS PROPERLY DISPLAYED
- ALL WORKMANSHIP AND MATERIALS SHALL BE OF FIRST QUALITY AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE NC BUILDING CODE, THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ALL PERTINENT AGENCIES.
- IT IS ESSENTIAL THAT ALL WORK PROCEED WITH THE MAXIMUM COOPERATION OF ALL . PARTIES AND WITH MINIMUM INTERFERENCE TO THE OCCUPANTS WITHIN THE BUILDING. THE OWNER'S DIRECTIONS IN THIS REGARD SHALL BE FULLY COMPLIED WITH
- ALL EXPOSED PLUMBING, HVAC, ELECTRICAL DUCTWORK, PIPING AND CONDUITS ARE TO BE PAINTED BY GENERAL CONTRACTOR.
- THE CONTRACTOR SHALL PERFORM THE WORK IN STRICT CONFORMANCE WITH THE LOCAL LAWS, REGULATIONS AND THE NATIONAL ELECTRIC CODE.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, AFFIDAVITS.
- CERTIFICATIONS, ETC. AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITIES.
- CONTRACTORS SHALL OBTAIN FIRE CERTIF. UPON COMPLETION OF WORK.

ELECTRICAL NOTES:

- THE EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE INSTALLED ONLY BY QUALIFIED PEOPLE. A QUALIFIED PERSON IS ONE WHO HAS SKILLS AND KNOWLEDGE RELATED TO THE CONSTRUCTION AND OPERATION OF THE ELECTRICAL EQUIPMENT AND INSTALLATIONS AND HAS RECEIVED SAFETY TRAINING TO RECOGNIZE AND AVOID THE HAZARDS INVOLVED. (NEC 690.4(E) AND 705.6)
- LOCAL UTILITY PROVIDER SHALL BE NOTIFIED PRIOR TO USE AND ACTIVATION OF ANY SOLAR PHOTOVOLTAIC INSTALLATION. FOR A LINE SIDE TAP CONNECTION. UTILITY NEEDS TO BE NOTIFIED WELL IN ADVANCE TO COORDINATE BUILDING ELECTRICAL SHUT OFF.
- NEW CONDUIT ROUTING SHOWN IS ESSENTIALLY SCHEMATIC. SUBCONTRACTOR SHALL LAY OUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION . REQUIREMENTS OF OTHER TRADES.
- ARRAY WIRING SHOULD NOT BE READILY ACCESSIBLE EXCEPT TO QUALIFIED PERSONNEL
- ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE WATERTIGHT AND APPROVED FOR USE IN WET LOCATIONS. (NEC 314.15A)
- WIRING METHODS FOR PV SYSTEM CONDUCTORS AREN'T PERMITTED WITHIN 10 IN. OF THE ROOF DECKING OR SHEATHING EXCEPT WHERE LOCATED DIRECTLY BELOW THE ROOF SURFACE THAT'S COVERED BY PV MODULES AND ASSOCIATED EQUIPMENT WIRING
- BACK-FED BREAKER MUST BE AT THE OPPOSITE END OF BUS BAR FROM THE MAIN BREAKER OR MAIN LUG SUPPLYING CURRENT FROM THE UTILITIES.
- ALL CONDUCTORS AND WIRE TIES EXPOSED TO SUNLIGHT ARE LISTED AS UV RESISTANT.
- CONTRACTOR SHALL FOLLOW ALL ELECTRICAL EQUIPMENT LABELING REQUIREMENTS IN NEC 690 AND IFC 2015
- MEASURE THE LINE-TO-LINE AND LINE-TO-NEUTRAL VOLTAGE OF ALL SERVICE ENTRANCE CONDUCTORS PROIR TO INSTALLING ANY SOLAR EQUIPMENT. THE VOLTAGES FOR THE 240VAC RATED.

GOVERNING CODES

2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL RESIDENTIAL CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE 2018 UNIFORM MECHANICAL CODE 2018 UNIFORM PLUMBING CODE AUTHORITY HAVING JURISDICTION (AHJ):

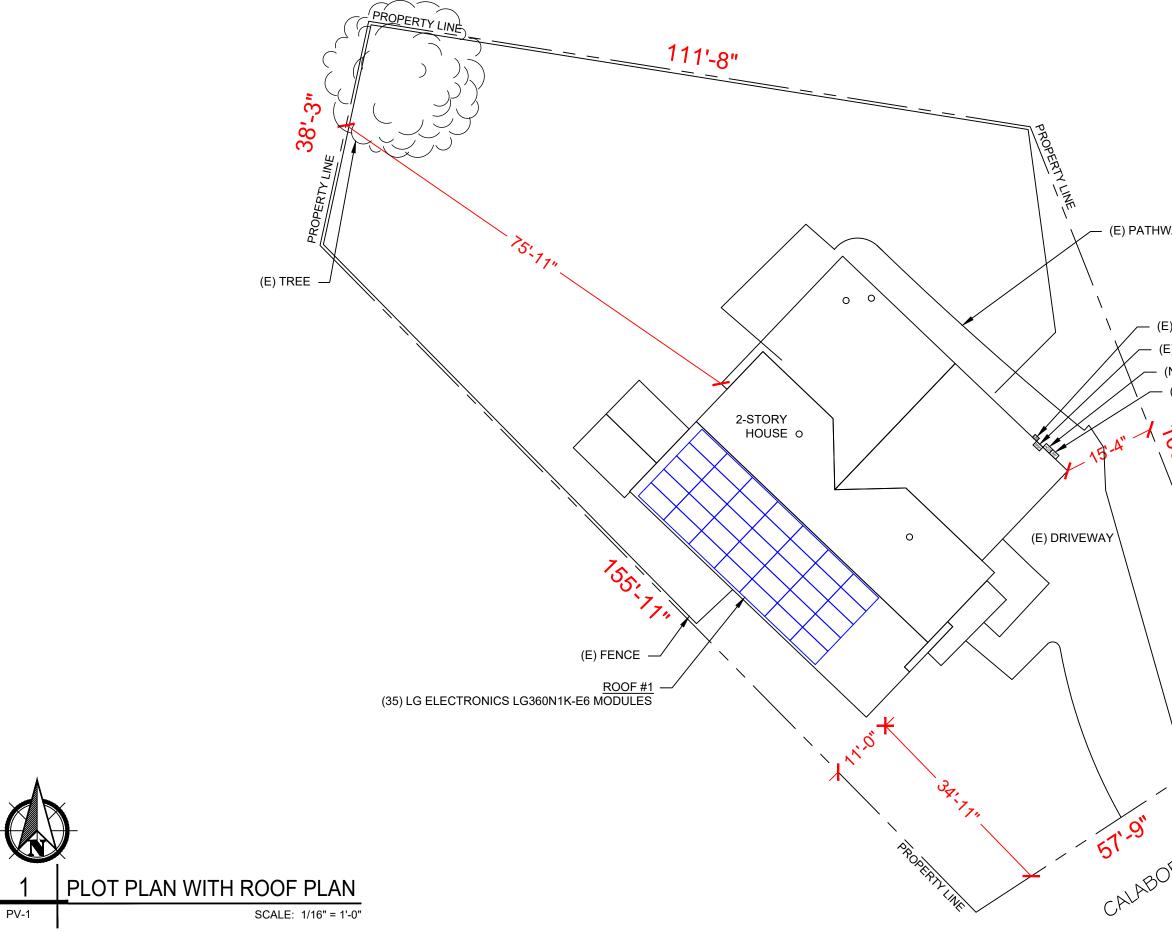
WIRING AND CONDUIT NOTES:

- ALL CONDUIT SIZES AND TYPES, SHALL BE LISTED FOR ITS PURPOSE AND APPROVED FOR THE SITE APPLICATIONS
- ALL PV CABLES AND HOMERUN WIRES BE #10AWG *USE-2, PV WIRE, OR PROPRIETARY SOLAR CABLING SPECIFIED BY MFR, OR EQUIVALENT; ROUTED TO SOURCE CIRCUIT COMBINER BOXES AS REQUIRED
- ALL CONDUCTORS AND OCPD SIZES AND TYPES SPECIFIED ACCORDING TO [NEC 690.8 (A)(1) & (B)(1)], [NEC 240] [NEC 690.7] FOR MULTIPLE CONDUCTORS
- ALL PV DC CONDUCTORS IN CONDUIT EXPOSED TO SUNLIGHT SHALL BE DERATED ACCORDING TO [NEC TABLE 310.15 (B)(2)(C)] BLACK ONLY**
- EXPOSED ROOF PV DC CONDUCTORS SHALL BE USE-2, 90°C RATED, WET AND UV RESISTANT, AND UL LISTED RATED FOR 600V, UV RATED SPIRAL WRAP SHALL BE USED TO PROTECT WIRE FROM SHARP EDGES
- PHASE AND NEUTRAL CONDUCTORS SHALL BE DUAL RATED THHN/THWN-2 INSULATED, 90°C RATED, WET AND UV RESISTANT, RATED FOR 600V PER NEC 2008 OR 1000V PER NEC 2011
- 4-WIRE DELTA CONNECTED SYSTEMS HAVE THE PHASE WITH THE HIGHER VOLTAGE TO GROUND MARKED ORANGE OR **IDENTIFIED BY OTHER EFFECTIVE MEANS**
- ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION
- VOLTAGE DROP LIMITED TO 2% FOR DC CIRCUITS AND 1% FOR AC CIRCUITS
- NEGATIVE GROUNDED SYSTEMS DC CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS: DC POSITIVE - RED (OR MARKED RED), DC NEGATIVE - GREY (OR MARKED GREY)
- POSITIVE GROUNDED SYSTEMS DC CONDUCTORS COLOR CODED: DC POSITIVE - GREY (OR MARKED GREY), DC NEGATIVE - BLACK (OR MARKED BLACK)
- AC CONDUCTORS >4AWG COLOR CODED OR MARKED: PHASE A OR L1- BLACK, PHASE B OR L2- RED, PHASE C OR L3- BLUE. **NEUTRAL- WHITE/GRAY**

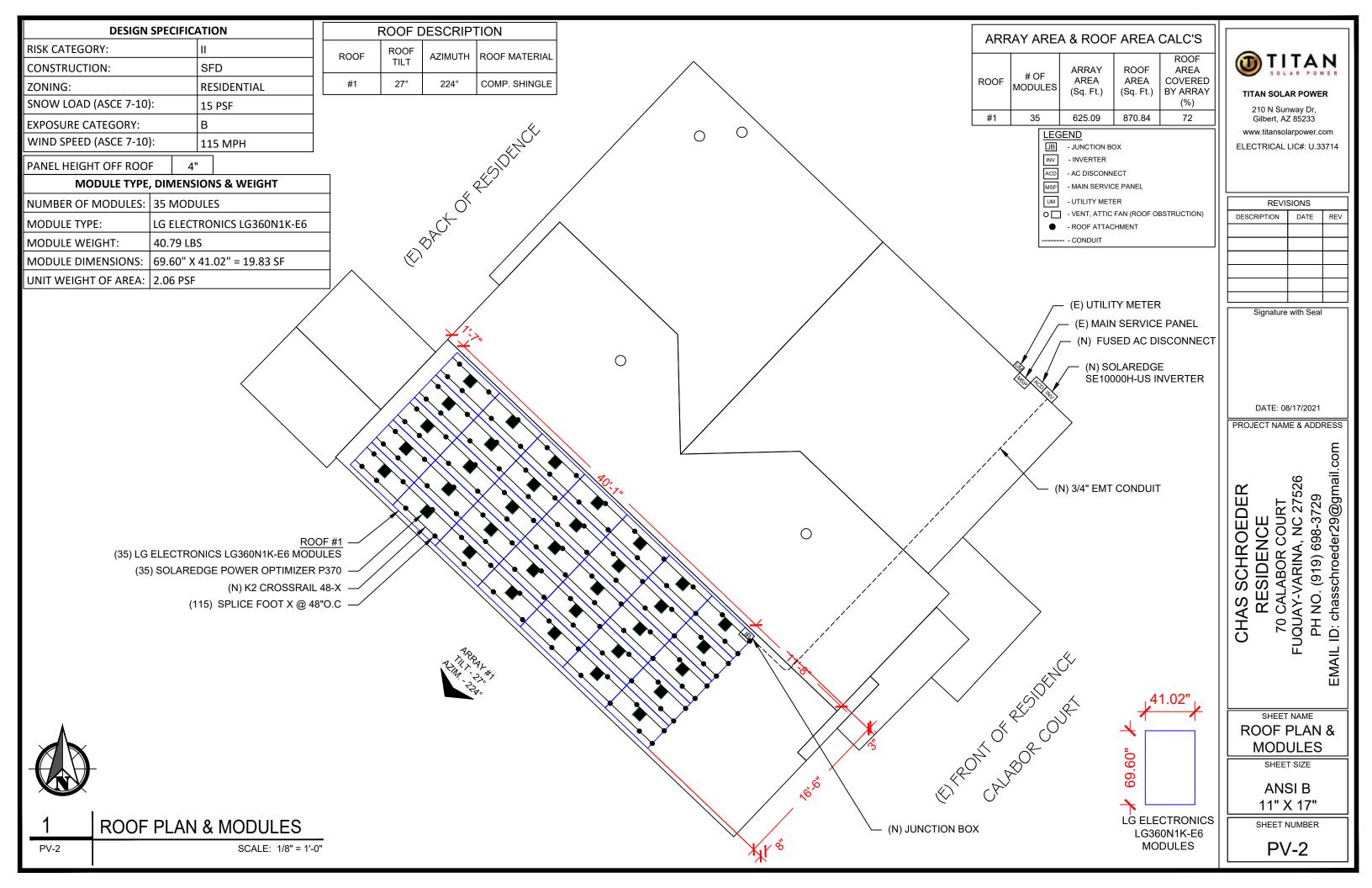
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	SHEET INDE			210 N Sur		
PV-0 PV-1	COVER			Gilbert, A		
PV-1 PV-2	SITE P ROOF PLAN &			www.titansol	arpower.c	om
PV-2A	STRING LAYC			ELECTRICAL	LIC#: U.3	3714
PV-3	ATTACHMEN					
PV-3A	ATTACHMEN					
PV-4	ELECTRICAL LINE DI		ļ			
PV-4A	ELECTRICAL LINE DI			REVI	SIONS	
PV-4B	SPECIFICATION			DESCRIPTION	DATE	REV
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PV-6	JOB SAFET					
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1 	IOUSE PHOTO	SCALE: NTS		HROEDE ENCE	NA, NC 275 9) 698-3729) beder29@gmail
5	ITE Apex	Raleigh Garner Clayton		CHAS SCHROEDEF RESIDENCE 70 CALABOR COURT	FUQUAY-VARINA, NC 275 PH NO. (919) 698-3729	EMAIL ID: chasschroeder29@gma
		Raleigh Garner			FUQUAY-VARINA, NC 27 PH NO. (919) 698-372	EMAIL ID: chasschroeder29@gma
	SITE Apex	Raleigh Garner Clayton			FUQUAY-VARINA, NC 27 PH NO. (919) 698-372	EMAIL ID: chasschroeder29@
	SITE Apex	Raleigh Garner Clayton		SHEET	D = MV D	EMAIL ID: chasschroeder29@
	SITE Apex	Raleigh Garner Clayton		SHEET COVEF SHEET ANS	Paris D ame PH NO. (919) 698-3729	EMAIL ID: chasschroeder29@
	SITE Apex	Raleigh Garner Clayton		SHEET COVEF SHEE ANS 11" X		EMAIL ID: chasschroeder29@



- A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS. THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS AN UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES. THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS. PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION [NEC 110.26]



	EXAMPLE 1 EXAMPLE 1 EXAMP
	DESCRIPTION DATE REV
WAY(TYP.)	
	Signature with See
	Signature with Seal
(E) UTILITY METER	
(E) MAIN SERVICE PANEL	
(N) FUSED AC DISCONNECT	
- (N) SOLAREDGE SE10000H-US INVERTER	DATE: 08/17/2021
(1) OULAREDGE GE 100001-03 INVERTER	PROJECT NAME & ADDRESS
	CHAS SCHROEDER RESIDENCE 70 CALABOR COURT FUQUAY-VARINA, NC 27526 PH NO. (919) 698-3729 EMAIL ID: chasschroeder29@gmail.com
TYLIN	
PROPERTYLINE	SHEET NAME
ORCOURT	SHEET SIZE ANSI B 11" X 17" SHEET NUMBER
	PV-1

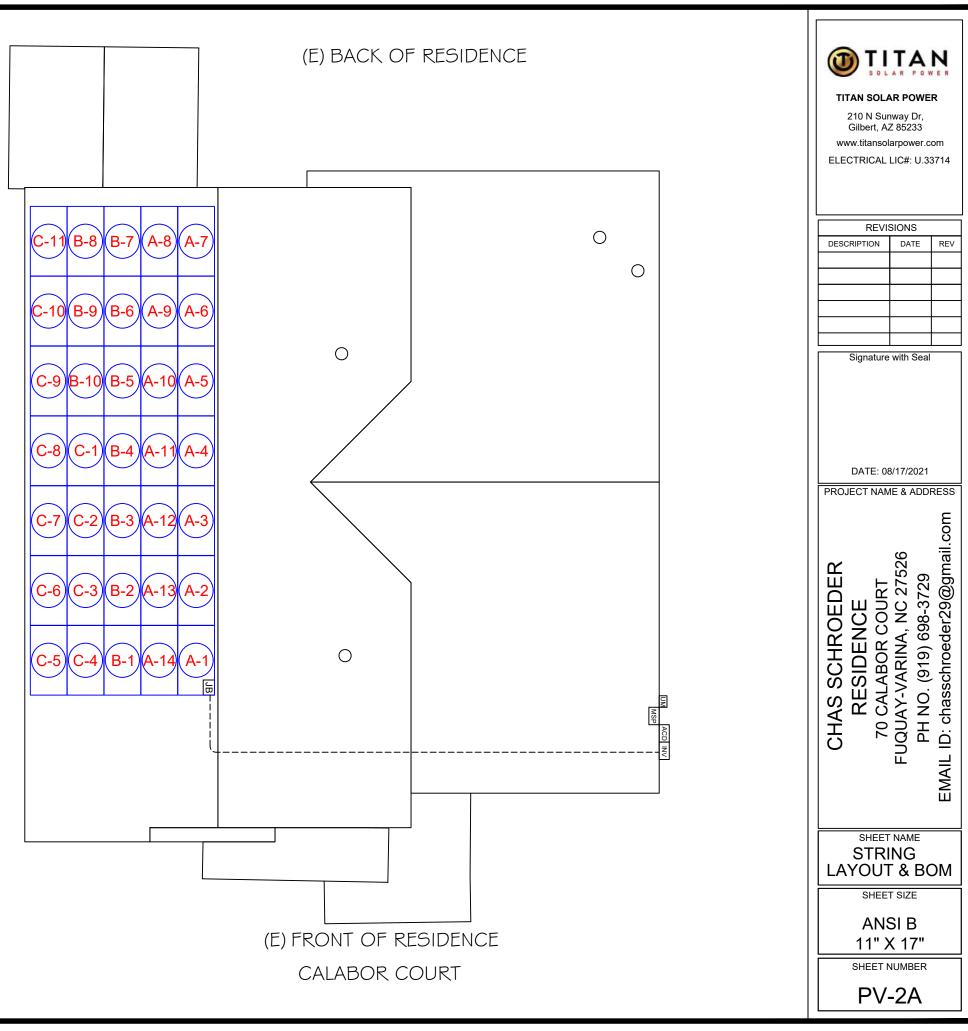


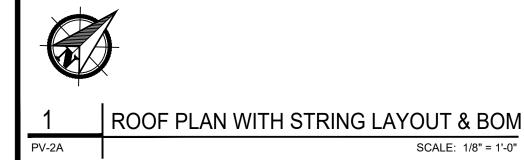
BILL OF MATERIALS								
EQUIPMENT	QTY	QTY DESCRIPTION						
SOLAR PV MODULE	35	LG ELECTRONICS LG360N1K-E6						
OPTIMIZER	35	SOLAREDGE POWER OPTIMIZER P370						
INVERTER	1 SOLAREDGE SE10000H-US							
AC DISCONNECT	1	EATON DG222NRB PV SYSTEM AC DISCONNECT SWITCH FUSED, 60A W/X FUSES, 120/240V 2P NEMA 3R						
JUNCTION BOX	1	JUNCTION BOX, NEMA 3R, UL LISTED						
ATTACHMENT	115	SPLICE FOOT X						
ATTACHMENT	115	K2 SOLAR SEAL BUTYL PAD						
ATTACHMENT	230	MS X 60 LAG SCREWS						
ATTACHMENT	115	T-BOLTS & HEX NUT SET						
RAILS	30	K2 CROSSRAIL 48-X RAIL (166")						
BONDED SPLICE	20	SPLICE KIT						
CLAMPS	80	MODULES CLAMPS (MID CLAMPS & END CLAMPS)						
GROUNDING LUG	5	GROUNDING LUG						

C) - MODULE STRINGING

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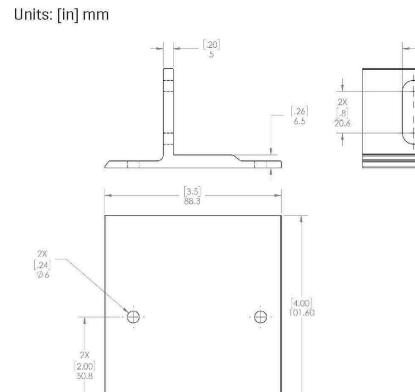


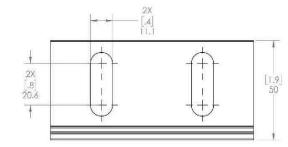
We support PV systems Formerly Everest Solar Systems

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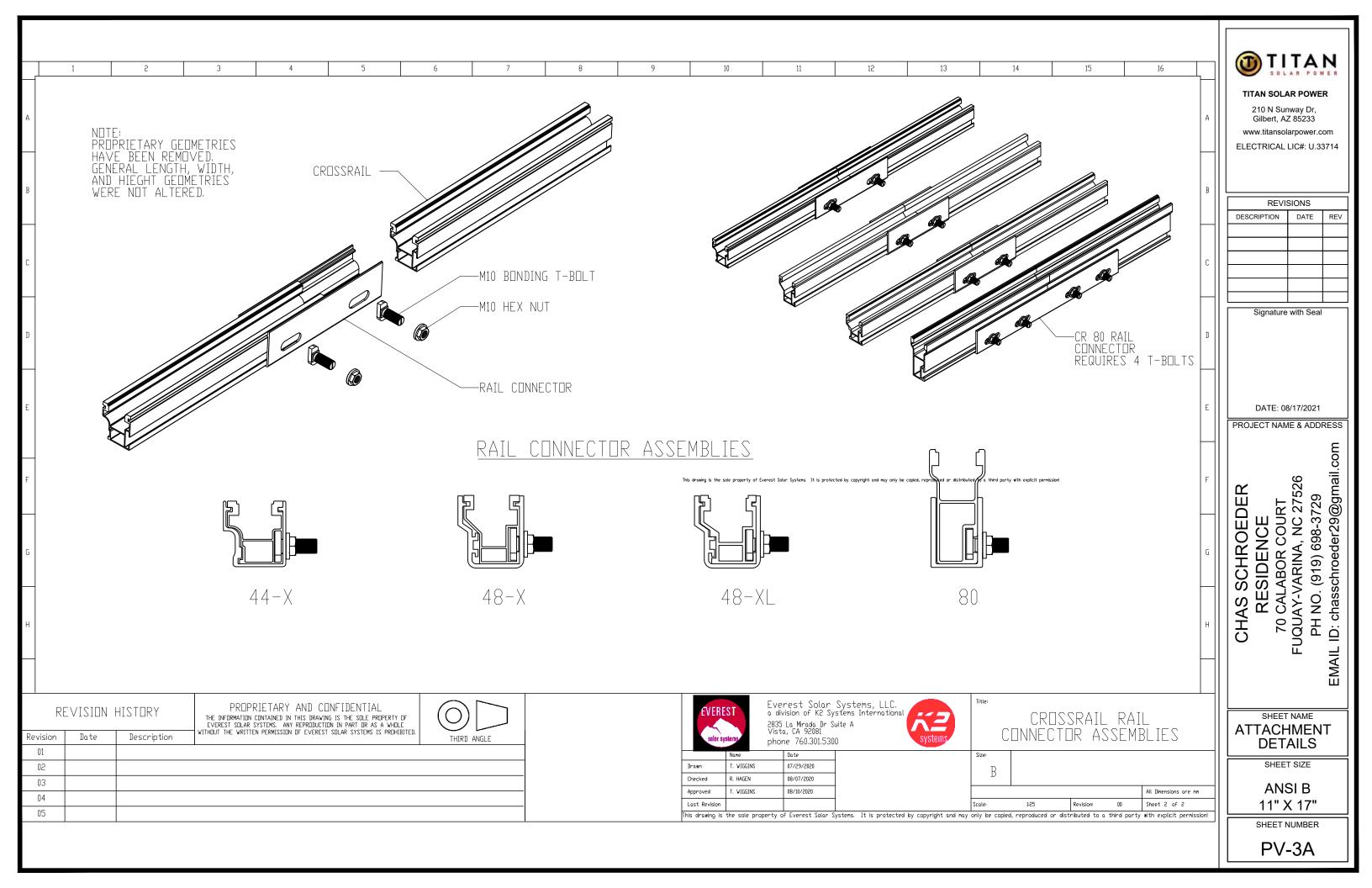






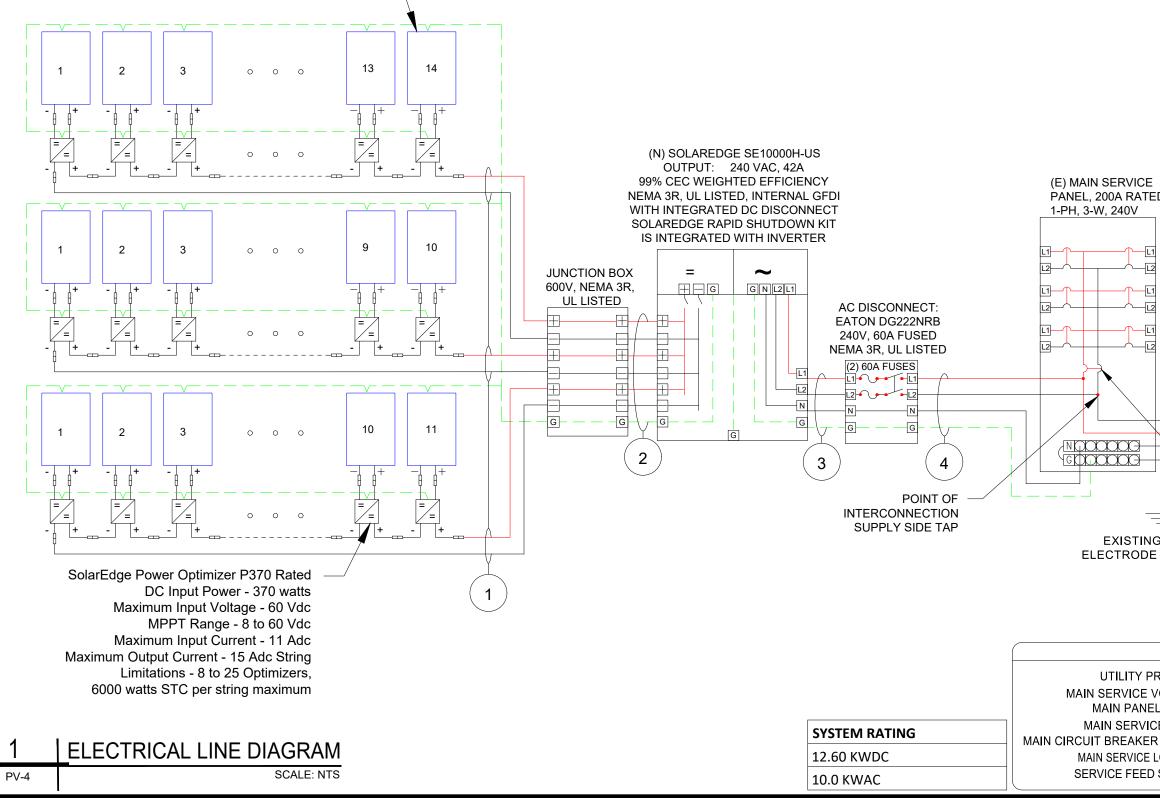
k2-systems.com

EXAMPLE 1 EXAMPLE 1 EXAMP										
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DESCRIPTION	DATE REV									
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	08/17/2021 AME & ADDRESS E									
	TU CALABUR COURT FUQUAY-VARINA, NC 27526 PH NO. (919) 698-3729 EMAIL ID: chasschroeder29@gmail.cor									
SHEET NAME ATTACHMENT DETAILS										
	ET SIZE									
11"	NSI B X 17"									
	t number V-3									



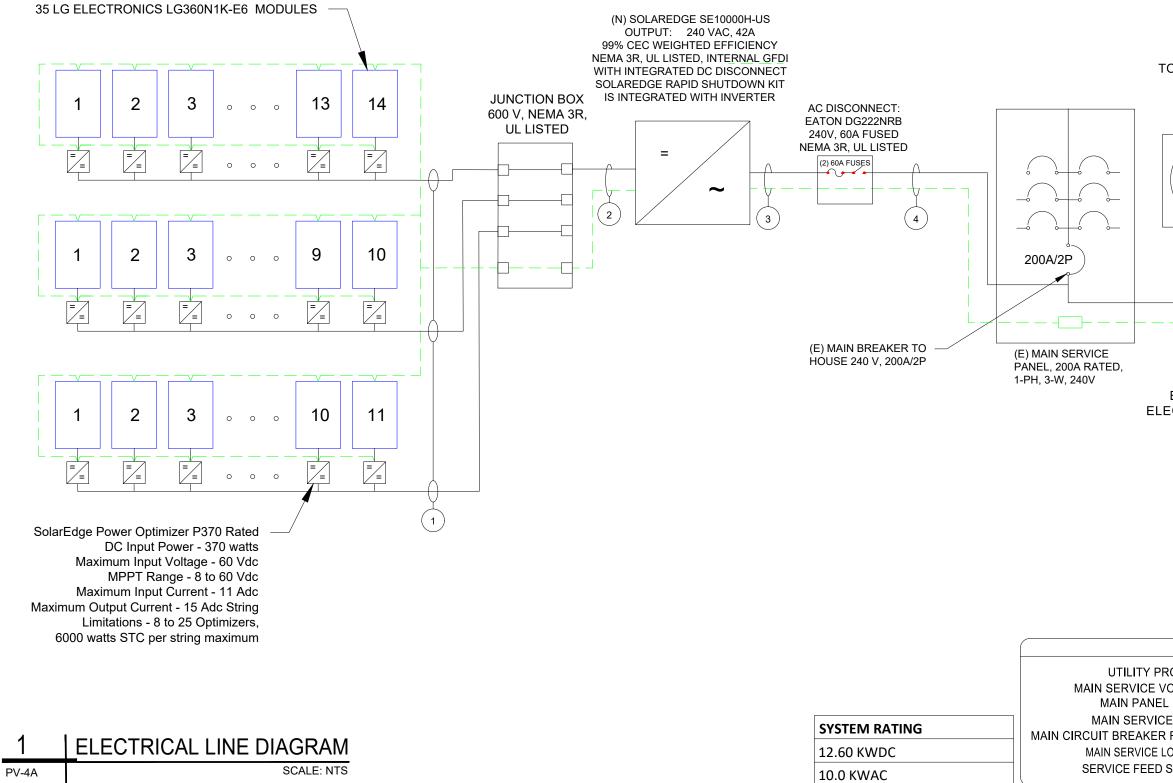
ID	TYPICAL	INITIAL CONDUCTOR LOCATION	FINAL CONDUCTOR LOCATION		CONDUCT	OR	CONDUIT	# OF PARALLEL CIRCUITS	CURRENT-CARRYING CONDUCTORS IN CONDUIT	Conduit Fill Percent	OCPD	E	GC		P. CORR. CTOR	CONDUIT FILL FACTOR	CONT. CURRENT	MAX. CURRENT
1	3	STRING	JUNCTION BOX	10 AWG	PV WIRE	COPPER	Open Air	1	2	N/A	N/A	6 AWG	BARE COPPER	0.71	(56°C)	N/A	15.0A	18.8A
2	1	JUNCTION BOX	INVERTER	10 AWG	THWN-2	COPPER	MIN 0.75" Dia EMT	3	6	26.72%	N/A	8 AWG	THWN-2, COPPER	0.96	(34°C)	0.8	15.0A	18.8A
3	1	INVERTER	FUSED AC DISCONNECT	6 AWG	THWN-2	COPPER	MIN 1.0" Dia EMT	1	3	36.53%	60A	8 AWG	THWN-2, COPPER	0.96	(34°C)	1	42.0A	52.5A
4	1	FUSED AC DISCONNECT	MSP	6 AWG	THWN-2	COPPER	MIN 1.0" Dia EMT	1	3	36.53%	N/A	8 AWG	THWN-2, COPPER	0.96	(34°C)	1	42.0A	52.5A

35 LG ELECTRONICS LG360N1K-E6 MODULES



т	BASE AMP.	DERATED AMP.	term. Temp. Rating	LENGTH	VOLTAGE DROP	
	40A	28.4A	90°C	80FT	0.03%	D TITAN
	40A	38.4A	90°C	65FT	0.22%	TITAN SOLAR POWER
	75A	72.0A	90°C	5FT	0.13%	210 N Sunway Dr,
	75A	72.0A	90°C	5FT	0.13%	Gilbert, AZ 85233 www.titansolarpower.com
						ELECTRICAL LIC#: U.33714
						REVISIONS DESCRIPTION DATE REV
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-						DATE: 08/17/2021
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	VIDER: LTAGE:	DUKE EN 240V	ERGY			
EL E	BRAND:	EATON				ANSI B 11" X 17"
	PANEL: ATING:					SHEET NUMBER
LO	CATION:	NORTH-E				
) S(JURCE:	UNDERG	ROUND			PV-4

ID	TYPICAL	INITIAL CONDUCTOR LOCATION	FINAL CONDUCTOR LOCATION	(CONDUCT	OR	CONDUIT	# OF PARALLEL CIRCUITS	CONDUCTORS IN CONDUIT	FILL	OCPD	E	GC		. CORR. CTOR	FILL FACTOR	CONT. CURRENT	MAX. CURRENT
1	3	STRING	JUNCTION BOX	10 AWG	PV WIRE	COPPER	Open Air	1	2	N/A	N/A	6 AWG	BARE COPPER	0.71	(56°C)	N/A	15.0A	18.8A
2	1	JUNCTION BOX	INVERTER	10 AWG	THWN-2	COPPER	MIN 0.75" Dia EMT	3	6	26.72%	N/A	8 AWG	THWN-2, COPPER	0.96	(34°C)	0.8	15.0A	18.8A
3	1	INVERTER	FUSED AC DISCONNECT	6 AWG	THWN-2	COPPER	MIN 1.0" Dia EMT	1	3	36.53%	60A	8 AWG	THWN-2, COPPER	0.96	(34°C)	1	42.0A	52.5A
4	1	FUSED AC DISCONNECT	MSP	6 AWG	THWN-2	COPPER	MIN 1.0" Dia EMT	1	3	36.53%	N/A	8 AWG	THWN-2, COPPER	0.96	(34°C)	1	42.0A	52.5A



BASE DERATED AMP. AMP.	TERM. TEMP. RATING	LENGTH	VOLTAGE DROP	
40A 28.4A	90°C	80FT	0.03%	TITAN
40A 38.4A	90°C	65FT	0.22%	TITAN SOLAR POWER
75A 72.0A	90°C	5FT	0.13%	210 N Sunway Dr,
75A 72.0A	90°C	5FT	0.13%	Gilbert, AZ 85233 www.titansolarpower.com
(M)	BI-DIREC METER# 1-PH, 3-V	332 127	215	REVISIONS DESCRIPTION DATE Image: state stat
				DATE: 08/17/2021 PROJECT NAME & ADDRESS
EXISTING GROU				CHAS SCHROEDER RESIDENCE 70 CALABOR COURT FUQUAY-VARINA, NC 27526 PH NO. (919) 698-3729 EMAIL ID: chasschroeder29@gmail.com
SERVICE INFO PROVIDER: DUKE ENF VOLTAGE: 240V EL BRAND: EATON CE PANEL: 200A R RATING: 200A	ERGY			SHEET NAME ELECTRICAL LINE & CALCS. SHEET SIZE ANSI B 11" X 17" SHEET NUMBER
LOCATION: NORTH-E SOURCE: UNDERGE				PV-4A

SOLAR MODULE SPECIFICATIONS							
MANUFACTURER / MODEL	LG ELECTRONICS LG360N1K-E6						
VMP	34.3 V						
IMP	10.51 A						
VOC	41.0 V						
ISC	11.03 A						
TEMP. COEFF. VOC	-0.26%/°C						
PTC RATING	334.5 W						
MODULE DIMENSION	69.60"(L) x 41.02"(W)						
PANEL WATTAGE	360W						

INVERTER SPECIFICATION									
MANUFACTURER / MODEL	SOLAREDGE SE10000H-US								
NOMINAL AC POWER	10000 W								
NOMINAL OUTPUT VOLTAGE	240 VAC								
NOMINAL OUTPUT CURRENT	42 A								

POWER OPTIMIZER (SOLAREDGE P370)								
MAXIMUM INPUT POWER	370 W							
MAXIMUM INPUT VOLTAGE	60 VDC							
MAXIMUM INPUT ISC	11 ADC							
MAXIMUM OUTPUT CURRENT	15 ADC							
WEIGHTED EFFICIENCY	98.80%							

AMBIENT TEMPERATURE SPECS								
RECORD LOW TEMP	-12°C							
AMBIENT TEMP (HIGH TEMP 2%)	34°C							
CONDUIT HEIGHT	0.5"							
ROOF TOP TEMP	90°C							
CONDUCTOR TEMPERATURE RATE	56°C							
MODULE TEMPERATURE COEFFICIENT OF VOC	-0.24%/°C							

PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT
0.80	4-6
0.70	7-9
0.50	10-20

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DESCRIPTIO	N	DA	TE	REV
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WARNING **ELECTRIC SHOCK HAZARD**

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

LABEL LOCATION

COMBINER BOX/ EMT ENCLOSURES/ AC DISCONNECT/ MAIN SERVICE PANEL (PER CODE: NEC 2017, 690.13(B))

WARNING **PHOTOVOLTAIC POWER SOURCE**

LABEL LOCATION:

CONDUIT, RACEWAY, ENCLOSURES, COMBINER BOX & AC DISCONNECT (PER CODE: NEC2017, 690.31(G)(3)(4)

PHOTOVOLTAIC

AC DISCONNECT

LABEL LOCATION: AC DISCONNECT/ BREAKER/ POINTS OF CONNECTION (PER CODE: NEC2017, 690.13(B)

PHOTOVOLTAIC AC DISCONNECT

RATED AC OUTPUT CURRENT 42A NOMINAL OPERATING AC VOLTAGE 240V

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LABEL LOCATION: AC DISCONNECT (PER CODE: NEC2017, 690.53)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION: RAPID SHUTDOWN (AC DISCONNECT) PER CODE: NEC 690.58 (C)(3)

WARNING: DUAL POWER SOURCE ECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION: POINT OF INTERCONNECTION (PER CODE: NEC 2017, 705.12(B)

	TEM EQUIPPED SHUTDOWN
TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY	SOLAR ELECTRIC PV PANELS

7

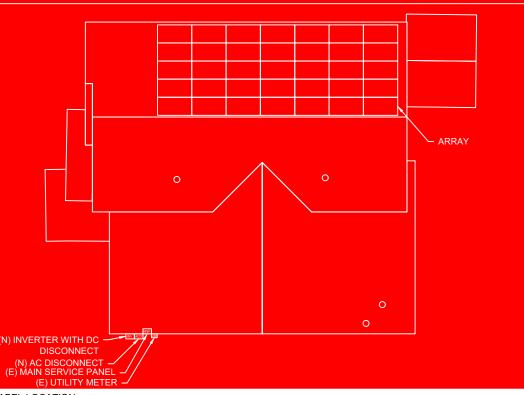
8

LABEL LOCATION: RAPID SHUTDOWN (AC DISCONNECT) PER CODE: NEC 690.56 (C)(1)

RATED MAXIMUM POWER- POINT CURRENT (Imp)	27	A
RATED MAXIMUM POWER- POINT VOLTAGE (Vmp)	400	v
MAXIMUM SYSTEM VOLTAGE (VOC)	480	v
MAXIMUM CIRCUIT CURRENT (Isc)	45	A

LABEL LOCATION: INVERTER (PER CODE: NEC 690.53)





LABEL LOCATION: EACH SERVICE EQUIPMENT LOCATION AND AT THE LOCATION(S) OF THE SYSTEM DISCONNECT(S) FOR ALL ELECTRIC POWER PRODUCTION SOURCES CAPABLE OF BEING INTERCONNECTED (PER CODE: NEC 705.10)

ADHESIVE FASTENED SIGNS:

ANSI Z535.4-2011 PRODUCT SAFETY SIGNS AND LABELS, PROVIDES GUIDELINES FOR SUITABLE FONT SIZES, WORDS, COLORS, SYMBOLS, AND LOCATION REQUIREMENTS FOR LABELS. NEC 110.21(B)(1)

- THE LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. NEC 110.21(B)(3) ADHESIVE FASTENED SIGNS MAY BE ACCEPTABLE IF PROPERLY ADHERED. VINYL SIGNS SHALL BE WEATHER RESISTANT.

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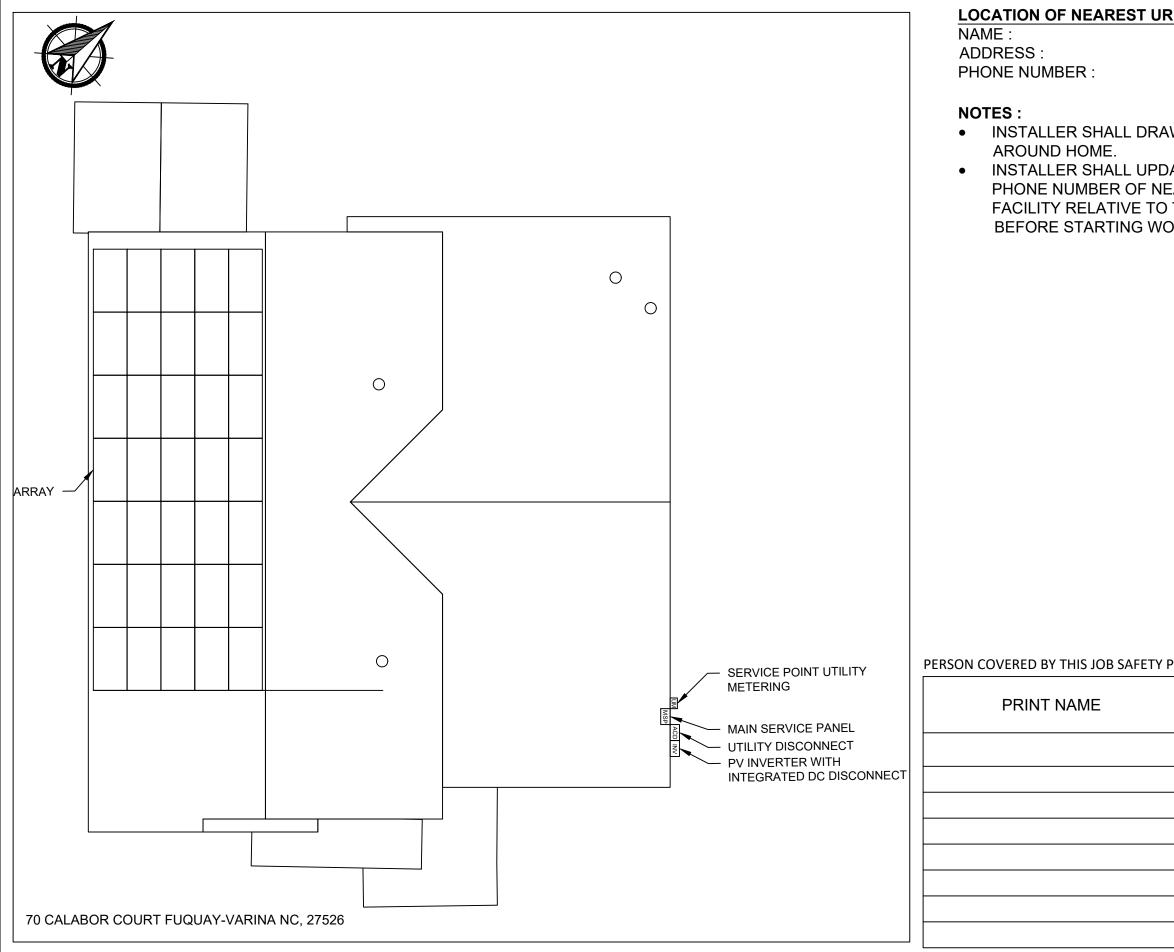
CAUTION

POWER TO THIS BUILDING IS SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN



TITAN

JOB SAFETY PLAN



RGENT CARE FACILITY :	TITAN SOLAR POWER 210 N Sunway Dr, Gilbert, AZ 85233 www.titansolarpower.com ELECTRICAL LIC#: U.33714
W IN DESIGNED SAFETY AREA	
ATE NAME, ADDRESS, AND EAREST URGENT CARE THE JOB SITE ORK.	REVISIONS DESCRIPTION DATE REV Image: Colspan="2">Image: Colspan="2">REV Image: Colspan="2">Image: Colspan="2" Image: Colsp
PLAN INJURED AT WORK TODAY ? INTIAL YES OR NO INITIAL YES NO	CHAS SCHROEDER CHAS SCHROEDER RESIDENCE 70 CALABOR COURT FUQUAY-VARINA, NC 27526 PH NO. (919) 698-3729 EMAIL ID: chasschroeder29@gmail.com
	SHEET NAME JOB SAFETY PLAN
	SHEET SIZE
	ANSI B 11" X 17"
	SHEET NUMBER

LG360N1K-E6

360W

The LG NeON® H is one of the most powerful and versatile modules on the market today. The cells are designed to appear all-black at a distance, and the performance warranty guarantees 87.2% of labeled power output at 25 years.





Features

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Enhanced Performance Warranty

LG NeON® H Black has an enhanced performance warranty. After 25 years, LG NeON® H Black is guaranteed at least 87.2% of initial performance.



25-Year Limited Product Warranty

The NeON® H Black is covered by a 25-year limited product warranty.



Solid Performance on Hot Days

LG NeON® H Black performs well on hot days due to its low temperature coefficient.



Roof Aesthetics

LG NeON® H Black has been designed with aesthetics in mind using thinner wires that appear all black at a distance.

When you go solar, ask for the brand you can trust: LG Solar

About LG Electronics USA, Inc.

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. The company first embarked on a solar energy source research program in 1995, supported by LG Group's vast experience in the semi-conductor, LCO, chemistry and materials industries. In 2010, LG Solar successful released its first MonoX® series to the market, which is now available in 32 countries. The NeON® (previous MonoX® NeON), NeON®2, NeON®2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.



LG NeON[®]H Black

LG360N1K-E6

120

Cell Properties (Material/Type)	Monocrystalline/N-type
Cell Maker	LG
Cell Configuration	120 Cells (6 x 20)
Number of Busbars	9 EA
Module Dimensions (L x W x H)	1,768mm x 1,042mm x 40 mm
Weight	18.5 kg
Glass (Material)	Tempered Glass with AR coating
Backsheet(Color)	Black
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,200mm x 2EA
Connector (Type/Maker)	MC 4/MC

Certifications and Warranty

	IEC 61215-1/-1-1/2 : 2016, IEC 61730-1/2 : 2016 UL 61730-1 : 2017, UL 61730-2 : 2017		
Certifications	ISO 9001, ISO 14001, ISO 50001		
	OHSAS 18001		
Salt Mist Corrosion Test	IEC 61701:2011 Severity 6		
Ammonia Corrosion Test	IEC 62716:2013		
Module Fire Performance	Type 2 (UL 61730)		
Fire Rating	Class C (UL 790)		
Solar Module Product Warranty	25 Year Limited		
Solar Module Output Warranty	Linear Warranty*		

Temperature Characteristics

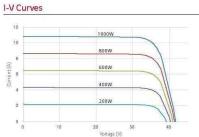
NMOT*	[°C]	42±3
Pmax	[%/°C]	-0.33
Voc	[%/°C]	-0.26
lsc	[%/°C]	0.04

Electrical Droportion (NIMOT)

Model		LG360N1K-E6	
Maximum Power (Pmax)	[W]	269	
MPP Voltage (Vmpp)	[V]	31.9	
MPP Current (Impp)	[A]	8.42	
Open Circuit Voltage (Voc)	[V]	38.2	
Short Circuit Current (Isc)	[A]	8.89	

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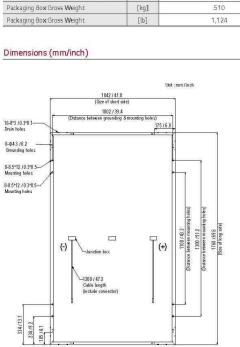
16-8*3 /0.3*0.1-Drain holes 8-Ф4.3 / 8.2 Grounding holes 8-8.5*12 /0.3*0.5---Mounting holes 8-8.5*12 / 0.3*0.5-





Product specifications are subject to change without notice. LG360N1K-E6.pdf 050721

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Electrical Properties (STC*)

Module Efficiency Power Tolerance

Operating Conditions Operating Temperature Maximum System Voltage

Maximum Series Fuse Rating

Mechanical Test Load* (Front Mechanical Test Load* (Rear)

Number of Modules per Pallet Number of Modules per 40' C Number of Modules per 53°C Packaging Box Dimensions (L Packaging Box Dimensions (L

Model		LG360N1K-E6	
Maximum Power (Pmax)	[W]	360	
MPP Voltage (Vmpp)	[V]	34.3	
MPP Current (Impp)	[A]	10.51	
Open Circuit Voltage (Voc ± 5%)	[V]	41.0	
Short Circuit Current (lisc ± 5%)	[A]	11.03	
Module Efficiency	[%]	19.5	
Power Tolerance	[%]	0~+3	

*STC (Standard Test Condition): Irradiance 1000 W/m², cell temperature 25°C, AM 1.5 Measurement Tolerence of Pmax: ± 3%

	[°C]	-40 ~+85	
	[V]	1,000 (UL/IEC)	
	[A]	20	
)	[Pa/psf]	5,400	
	[Pa/psf]	4,000	

*Based on IEC 61215-2 : 2016 (Test Load = Design Load × Safety Factor (1.5)) Mechanical Test Loads 6,000Pa/5,400Pa based on IEC 61215:2005

Packaging Configuration

t.	[EA]	25
ontainer	[EA]	650
ontainer	[EA]	850
×W×H)	[mm]	1,790 x 1,120 x 1,213
xWxH)	[in]	70.5 x 44.1 x 47.8
	[kg]	510
	[lb]	1,124

TITAN S 210 N Gilber www.tita	TITAN SOLAR POWER 210 N Sunway Dr, Gilbert, AZ 85233 www.titansolarpower.com ELECTRICAL LIC#: U.33714			
R	EVI	SION	s	
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CHAS SCHROEDER RESIDENCE		27526	-	@gmail.com
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Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / 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 efficiency
- I Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- / Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12

- / UL1741 SA certified, for CPUC Rule 21 grid compliance
- / Extremely small
- / Built-in module-level monitoring
- / Outdoor and indoor installation
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)



NVERTERS

Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

Model Number	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER				SEXXXXH-XXXXXBXX	4			
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage MinNomMax. (211 - 240 - 264)	~	~	~	~	1	~	~	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)		✓	-	~	-	-	~	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5(1)				Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	1	16	-	24	-		48.5	A
Power Factor	-		- 1,	adjustable -0.85 to 0	.85			
GFDI Threshold				1				A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds		Yes						
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	in the	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage		480						Vdc
Nominal DC Input Voltage		30	30			400		Vdc
Maximum Input Current @240V [@]	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V ²	-	9	-	13.5	ж.	-	27	Adc
Max. Input Short Circuit Current				45				Adc
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600kΩ Sensitivity				
Maximum Inverter Efficiency	99			9	9.2			%
CEC Weighted Efficiency			9	9			99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption				< 2.5				W

For other regional settings please contact SolarEdge support

A higher current source may be used; the inverter will limit its input current to the values stated

solaredge.com



TITAN SOLAR POWER

210 N Sunway Dr, Gilbert, AZ 85233 www.titansolarpower.com

ELECTRICAL LIC#: U.33714

REVI	SIONS	
DESCRIPTION	DATE	REV

Signature with Seal

DATE: 08/17/2021

PROJECT NAME & ADDRESS

CHAS SCHROEDER RESIDENCE 70 CALABOR COURT FUQUAY-VARINA, NC 27526 PH NO. (919) 698-3729 EMAIL ID: chasschroeder29@gmail.co

> SHEET NAME EQUIPMENT SPECIFICATION SHEET SIZE

> > ANSI B 11" X 17"

SHEET NUMBER

PV-8

/ Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

Model Number	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
ADDITIONAL FEATURES								
Supported Communication Interfaces			RS485, Etherne	et, ZigBee (optional), C	ellular (optional)			
Revenue Grade Data, ANSI C12.20	-	Optional ⁽³⁾						
Inverter Commissioning		with the SetApp mobile application using built-in Wi-Fi Access Point for local connection						
Rapid Shutdown - NEC 2014 and 2017 690.12		Automatic Rapid Shutdown upon AC Grid Disconnect						
STANDARD COMPLIANCE								
Safety		UL1741	, UL1741 SA, UL1699B	, CSA C22.2, Canadiar	AFCI according to T.	I.L. M-07		
Grid Connection Standards		IEEE1547, Rule 21, Rule 14 (HI)						
Emissions		FCC Part 15 Class B						
INSTALLATION SPECIFICA	TIONS							
AC Output Conduit Size / AWG Range		1'' Maximum / 14-6 AWG 1'' Maximum / 14-4 AWG				/14-4 AWG		
DC Input Conduit Size / # of Strings / AWG Range		1" Maximum / 1-2 strings / 14-6 AWG 1" Maximum / 1-3 strings / 14-6 AW					trings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)		17.7 x 14.6 x 6.8 / 450 x 370 x 174 21.3 x 14.6 x 7.3 / 540				540 x 370 x 185	in / mm	
Weight with Safety Switch	22	/ 10	25.1/11.4	26.2	/ 11.9	38.8 /	17.6	lb / kg
Noise		<	25			<50		dBA
Cooling				Natural Convection				
Operating Temperature Range			-4	40 to +140 / -40 to +6	i0 ⁽⁴⁾			"F/"C
Protection Rating			NEMA	4X (Inverter with Safet	y Switch)			

Revenue grade inverter P/N: SExxxxH-US000BNC4
Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf

RoHS

TITAN SOLAR POWER 210 N Sunway Dr, Gilbert, AZ 85233 www.titansolarpower.com ELECTRICAL LIC#: U.33714				
		SION	S	
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CHAS SCHROEDER RESIDENCE	70 CALABOR COURT	FUQUAY-VARINA, NC 27526	PH NO. (919) 698-3729	29@gmail.com
EQ	SHEET NAME EQUIPMENT SPECIFICATION			
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Power Optimizer

For North America P320 / P340 / P370 / P400 / P405 / P505



POWER OPTIMIZER

PV power optimization at the module-level

- I 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 shading
- / 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



/ 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							
Rated Input DC Power ⁽¹⁾	320	340	370	400	405	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	2	18	60	80	125 ⁽²⁾	87(2)	Vdc
MPPT Operating Range	8 -	48	8 - 60	8 - 80	12.5 - 105	12.5 - 87	Vdc
Maximum Short Circuit Current (Isc)		11		10	0.1	14	Adc
Maximum DC Input Current		13.75		12	2.5	17.5	Adc
Maximum Efficiency			99	9.5			%
Weighted Efficiency			98.8			98.6	%
Overvoltage Category			1	1			
OUTPUT DURING OPER	ATION (POWER	OPTIMIZER CO	NNECTED TO C	PERATING SOL	AREDGE INVER	TER)	
Maximum Output Current		15					Adc
Maximum Output Voltage		6	60		8	5	Vdc
Safety Output Voltage per Power Optimizer	1 ± 0.1						Vdc
STANDARD COMPLIANC	CE	5.4			-		
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3					1	
		FC			i-3		
Safety		FC	IEC62109-1 (class	II safety), UL1741	i-3		
Safety Material		FC	IEC62109-1 (class UL94 V-0 , I	i II safety), UL1741 JV Resistant	i-3		
Safety Material RoHS		FC	IEC62109-1 (class	i II safety), UL1741 JV Resistant	-3		
Safety Material RoHS INSTALLATION SPECIFIC	CATIONS	FC	IEC62109-1 (class UL94 V-0 , I	i II safety), UL1741 JV Resistant	i-3		
Safety Material RoHS	CATIONS		IEC62109-1 (class UL94 V-0 , 1 Yi 10	i II safety), UL1741 JV Resistant es			Vdc
Safety Material ROHS INSTALLATION SPECIFIC Maximum Allowed System	ATIONS		IEC62109-1 (class UL94 V-0 , \ Yt	III safety), UL1741 JV Resistant es 00 and Three Phase inve	erters		Vdc
Safety Material RoHS INSTALLATION SPECIFIC Maximum Allowed System Voltage		All Sr v x 153 x 27.5 / 5.1 x 6	IEC62109-1 (class UL94 V-0 , 1 Ya 10 DlarEdge Single Phase	i II safety), UL1741 JV Resistant es	erters 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	Vdc mm / ir
Safety Material RoHS INSTALLATION SPECIFIC Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables)		All Sc	IEC62109-1 (class UL94 V-0 , I Yu 10 olarEdge Single Phase x 1.1	II safety), UL1741 JV Resistant es 00 and Three Phase inver 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7	erters 129 x 159 x 49.5 /		
Safety Material RoHS INSTALLATION SPECIFIC Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector		All Sr v x 153 x 27.5 / 5.1 x 6	IEC62109-1 (class UL94 V-0, , Ye DarEdge Single Phase x 1.1 Single or c	II safety), UL1741 JV Resistant es 00 and Three Phase inver 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 tual MC4 ^(a)	erters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	5.1 x 6.4 x 2.3	mm / ir
Safety Material RoHS INSTALLATION SPECIFIC Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length		All Sr v x 153 x 27.5 / 5.1 x 6	IEC62109-1 (class UL94 V-0, , Ye DarEdge Single Phase x 1.1 Single or c	II safety), UL1741 JV Resistant es 00 and Three Phase inver 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7	erters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	5.1 x 6.4 x 2.3	mm / ir
Safety Material RoHS INSTALLATION SPECIFIC Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length Output Wire Type / Connector	125	All Sr x 153 x 27.5 / 5.1 x 6 630 / 1.4	IEC62109-1 (class UL94 V-0, , Ye DarEdge Single Phase x 1.1 Single or c	II safety), UL1741 JV Resistant es 00 and Three Phase inve 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 tual MC4 ^(a) 0.52 lated / MC4	erters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3	mm / ii gr / lb
Safety Material RoHS INSTALLATION SPECIFIC Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length Output Wire Type / Connector Output Wire Length	125	All Sr v x 153 x 27.5 / 5.1 x 6	IEC62109-1 (class UL94 V-0, , Ye DolarEdge Single Phase x 1.1 Single or c 0.16 / Double Insu	II safety), UL1741 JV Resistant es 00 and Three Phase inver 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 tual MC4 ^(a) 0.52 lated / MC4 1.2 /	erters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3	mm/i gr/lb m/ft m/ft
Safety Material RoHS INSTALLATION SPECIFIC Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length Output Wire Type / Connector	125	All Sr x 153 x 27.5 / 5.1 x 6 630 / 1.4	IEC62109-1 (class UL94 V-0 , 1 Ye DlarEdge Single Phase x 1.1 Single or c 0.16 /	II safety), UL1741 JV Resistant es 00 and Three Phase inver 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 tual MC4 ^(a) 0.52 lated / MC4 1.2 /	erters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3	mm / ii gr / lb m / ft m / ft
Safety Material RoHS INSTALLATION SPECIFIC Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length Output Wire Type / Connector Output Wire Length	125	All Sr x 153 x 27.5 / 5.1 x 6 630 / 1.4	IEC62109-1 (class UL94 V-0, , Ye DolarEdge Single Phase x 1.1 Single or c 0.16 / Double Insu	II safety), UL1741 JV Resistant es 00 and Three Phase inve 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 Jual MC4 ^(a) 0.52 lated / MC4 1.2 / -40 - +185 IEMA6P	erters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3	mm / ir gr / lb

NEC 2017 requires max input voltage be not more than 80V ^{III} For other connector types please contact SolarEdge ^{III} For ambient temperature above +85^sC / +185^sF power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details.

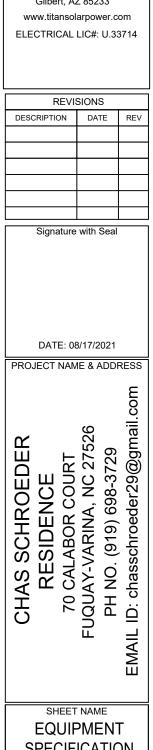
PV System D a SolarEdge	esign Using Inverter ⁽⁵⁾⁽⁶⁾	Single Phase HD-Wave	Single phase	Three Phase 208V	Three Phase 480V	
Minimum String Length	P320, P340, P370, P400	8		10	18	
(Power Optimizers)	P405 / P505	6		8	14	
Maximum String Length (Power Optimizers)		25		25	50(7)	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400- US)	5250	60.00 ⁽⁸⁾	12750 ^g	W
Parallel Strings of Differer or Orientations	nt Lengths			Yes		

- ^{IM} For detailed \$\pi\$ ing sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf
 ^{III} It is not allowed to mix P405/P505 with P320/P340/P370/P400 in one string
 ^{IM} A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement
 ^{IM} A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement
 ^{IM} For SE14.4KUS/SE43.2KUS: It is allowed to install up to 6,500W per 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 up to 1000W
 ^{IM} For SE30KUS/SE63.3KUS/SE66.6KUS/SE100KUS: It is allowed to install up to 1,5000W
 ^{IM} For SE30KUS/SE66.6KUS/SE100KUS;
- and when the maximum power difference between the strings is up to 2,000W

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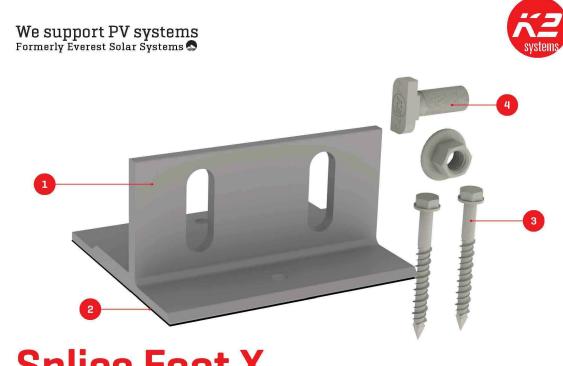
210 N Sunway Dr, Gilbert, AZ 85233

SPECIFICATION SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-9



Splice Foot X

TECHNICAL SHEET

Item Number	Description	Part Number
1	Splice Foot X	4000113 Splice Foot X Kit, Mill
2	K2 Solar Seal Butyl Pad	
3	M5 x 60 lag screws	
4	T-Bolt & Hex Nut Set	

Technical Data

	Splice Foot X
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

k2-systems.com

REVISIONS DESCRIPTION DATE REV DESCRIPTION DATE REV DESCRIPTION DATE REV DESCRIPTION DATE DATE Signature with Seal DATE: 08/17/2021 DATE: 08/17/2021 PROJECT NAME & ADDRESS DH NO. (919) 698-3729 DH NO. (919) 698-3729 L ID: chasschroeder 29@gmail.com L ID: chasschroeder 29@gmail.com	CONSISTENT OF CO				
DATE: 08/17/2021 PROJECT NAME & ADDRESS 3:3729 CBUEL PROJECT NAME & ADDRESS CBUEL CBUEL CBUEL CBUEL CBUEL					-
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We support PV systems Formerly Everest Solar Systems



CROSSRAIL 48-X



Mechanical Properties

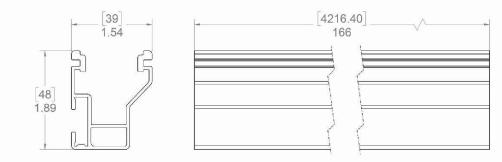
	CrossRail 48-X
Material	6000 Series Aluminum
Ultimate Tensile Strength	37.7 ksi (260 MPa)
Yield Strength	34.8 ksi (240 MPa)
Weight	0.56 lbs/ft (0.833 kg/m)
Finish	Mill or Dark Anodized

Sectional Properties

	CrossRail 48-X
Sx	0.1980 in ³ (3.245 cm ³)
Sy	0.1510 in ³ (2.474 cm ³)
A (X-Section)	0.4650 in² (2.999 cm²)

A (X-Section)

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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R	EVI	SION	S	
DESCRIPTIC	N	DA	TE	REV
Signa	iture	with	Seal	
CHAS SCHROEDER RESIDENCE	70 CALABOR COURT	FUQUAY-VARINA, NC 27526	PH NO. (919) 698-3729	29@gmail.com
SHEET NAME EQUIPMENT				
SPECIFICATION				
SHEET SIZE ANSI B 11" X 17"				
SHEET NUMBER				
PV-11				