Building Codes: 2017 NEC, 2018 NORTH CAROLINA RESIDENTIAL CODE, 2018 NORTH CAROLINA FIRE CODE, 2018 NORTH CAROLINA BUILDING CODE and AHJ Amendments

# TURPEN, CHRISTINE PV SYSTEM 661 CAMERON HILL ROAD . CAMERON, NC, 28326 APN: 099565 0036 03 JURISDICTION: HARNETT COUNTY (NC) GENERAL INFORMATION

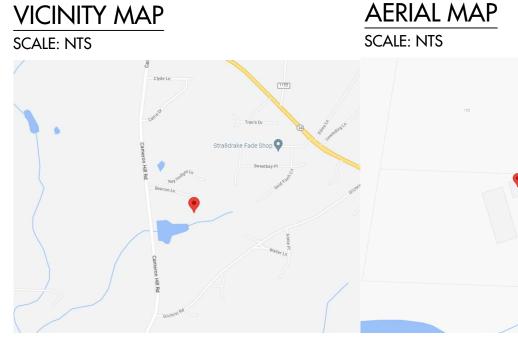
## SYSTEM SIZE:

ROOF PITCHED: INVERTER: MODULES: STRINGS: ELECTRICAL SERVICE RATING: PV SYSTEM OVERCURRENT RATING: PV SYSTEM DISCONNECT SWITCH: ROOF TYPE: ROOF FRAMING: RACKING/RAILING: ATTACHMENT METHOD: ROOF ATTACHMENT : 10.000 kW-DC-STC

7.600 kW-AC 25 DEGREES (1) SOLAREDGE SE7600H-US W/ P401 OPTIMIZERS (25) Q PEAK DUO BLK ML G10+ 400W (1) x 14 (1) x 11 MODULE SERIES STRINGS 200A 40A EATON DG222URB (60A / 2P) GROUND H ENGINEERED TRUSS XR1000 / XR1000 RAIL CANTILEVER HELICAL PILE PACKAGE - U.S. HELICAL HELICAL PILE PACKAGE - U.S. HELICAL

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REQUIRED INFORMATION	SHEET NAME	SHEET NUMBER
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MODULE AND EQUIPMENT LAYOUT	SITE PLAN	PV 2
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ROOF ATTACHMENT DETAILS	DETAILS	PV 4
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ELECTRICAL 3 LINE DIAGRAM	THREE LINE	PV 6
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PV EQUIPMENT LABELING DETAIL	LABELS	PV 7
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JOB SAFETY PLAN	SAFETY PLAN	PV 9
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DATA SHEETS & ADDITIONAL INFORMATION	SUPPLEMENTAL MATERIAL	



# NOTES

EC	QUIPMENT LOCATION	GE	ENE
1.	ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26.	1.	MC
2.	WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR		STA
	EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC690.31(A),(C) AND	2.	INV
	NEC TABLES 310.15(B)(2)(A) AND 310.15(B)(3)(C).		STA
3.	JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES	3.	DR/
	ACCORDING TO NEC 690.34.		ARF
4.	ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS		MIC
	NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.	4.	WC
5.	ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL		WIL
	ACCORDING TO NEC APPLICABLE CODES.	5.	ALL
6.	ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR		GR
	USAGE WHEN APPROPRIATE.	6.	ALL
W	IRING & CONDUIT NOTES		OTH
1.	ALL CONDUITS AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE.	7.	WH
	CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE		CO
	REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.	8.	THE
2.	CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.		UN
3.	DC WIRING LIMITED TO MODULE FOOTPRINT. MICRO INVERTER WIRING	9.	ROO
	SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE		REG
	WIRING CLIPS.		SUC
4.	AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK,		WI
	PHASE B OR L-2 RED, OR OTHER CONVENTION IF THREE PHASE, PHASE C OR	10.	PV
	L3-BLUE, YELLOW, ORANGE, OR OTHER CONVENTION NEUTRAL- WHITE OR		ARF
	GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH THE HIGHER		

VOLTAGE TO BE MARKED ORANGE NEC 110.15.



TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

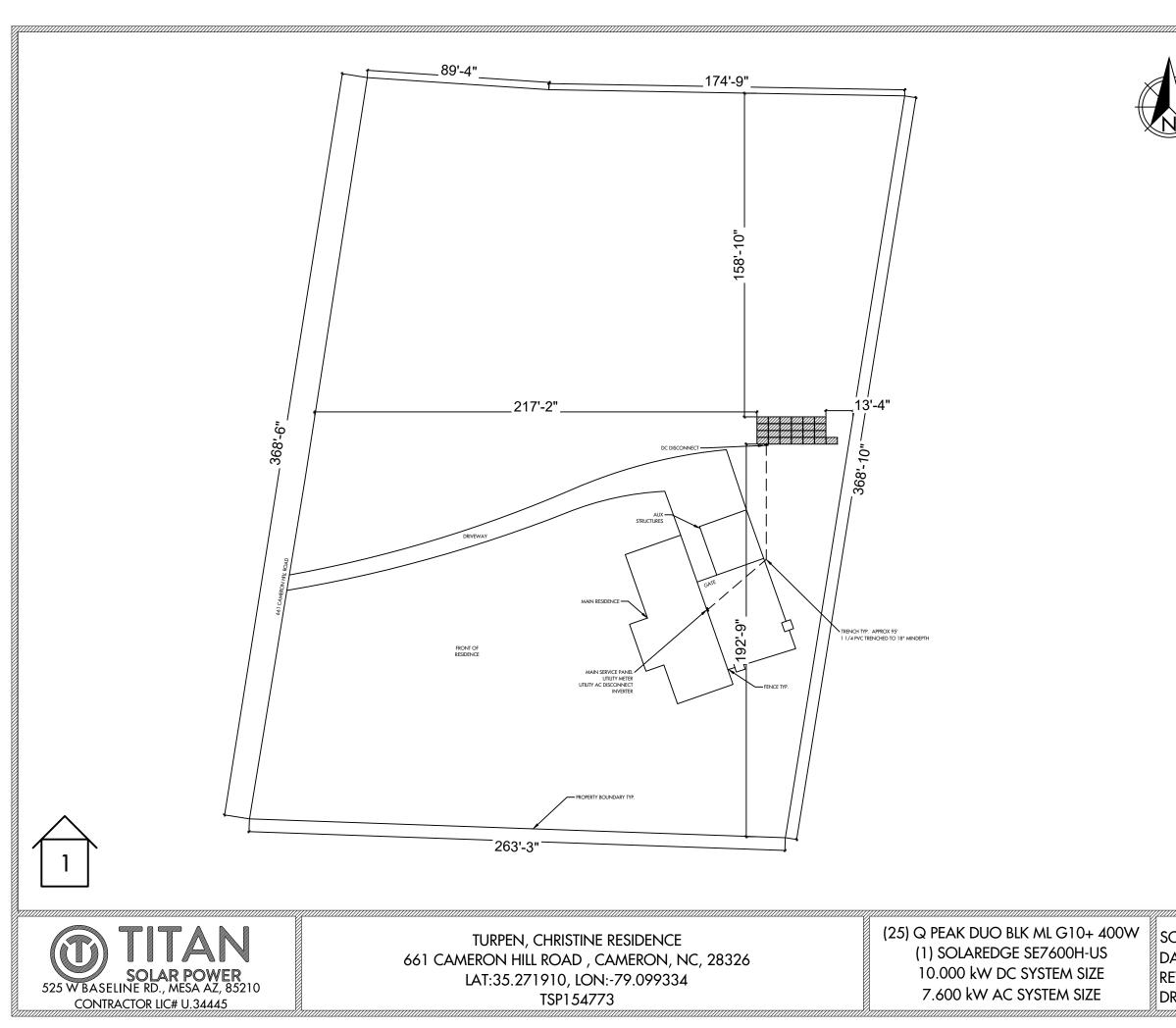


5/11/2023

## IERAL NOTES

- ODULES ARE LISTED UNDER UL 1703 AND CONFORM TO THE TANDARDS.
- IVERTERS ARE LISTED UNDER UL 1741 AND CONFORM TO THE TANDARDS.
- RAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL
- RRANGEMENT OF THE PV SYSTEM AND THE ACTUAL SITE CONDITION IGHT VARY.
- ORKING CLEARANCES AROUND THE NEW PV ELECTRICAL EQUIPMENT /ILL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26.
- LL GROUND WIRING CONNECTED TO THE MAIN SERVICE
- ROUNDING IN MAIN SERVICE PANEL/SERVICE COMPONENT.
- ll conductors shall be 600V, 75° C standard copper unless Therwise noted.
- /HEN REQUIRED, A LADDER SHALL BE IN PLACE FOR INSPECTION IN OMPLIANCE WITH OSHA REGULATIONS.
- HE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR NTIL APPROVAL FROM THE LOCAL JURISDICTION AND/OR THE UTILITY. DOF ACCESS POINT SHALL BE LOCATED IN AREAS THAT DO NOT EQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS JCH AS WINDOWS WHERE THE ACCESS POINT DOES NOT CONFLICT /ITH OVERHEAD OBSTRUCTIONS SUCH AS TREES, WIRES OR SIGNS. / ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM RRAY WIRING TO CONDUIT WIRING.

	''''''''''''''''''''''''''''''''''''''		///// }}	///////////////////////////////////////	
DATE: 5/8/2023				COVER PAGE	
REV:A DRAWN BY: CA				PV 1	
	8	SEAL:	8		



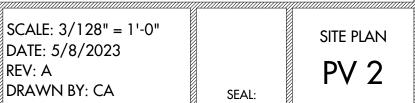


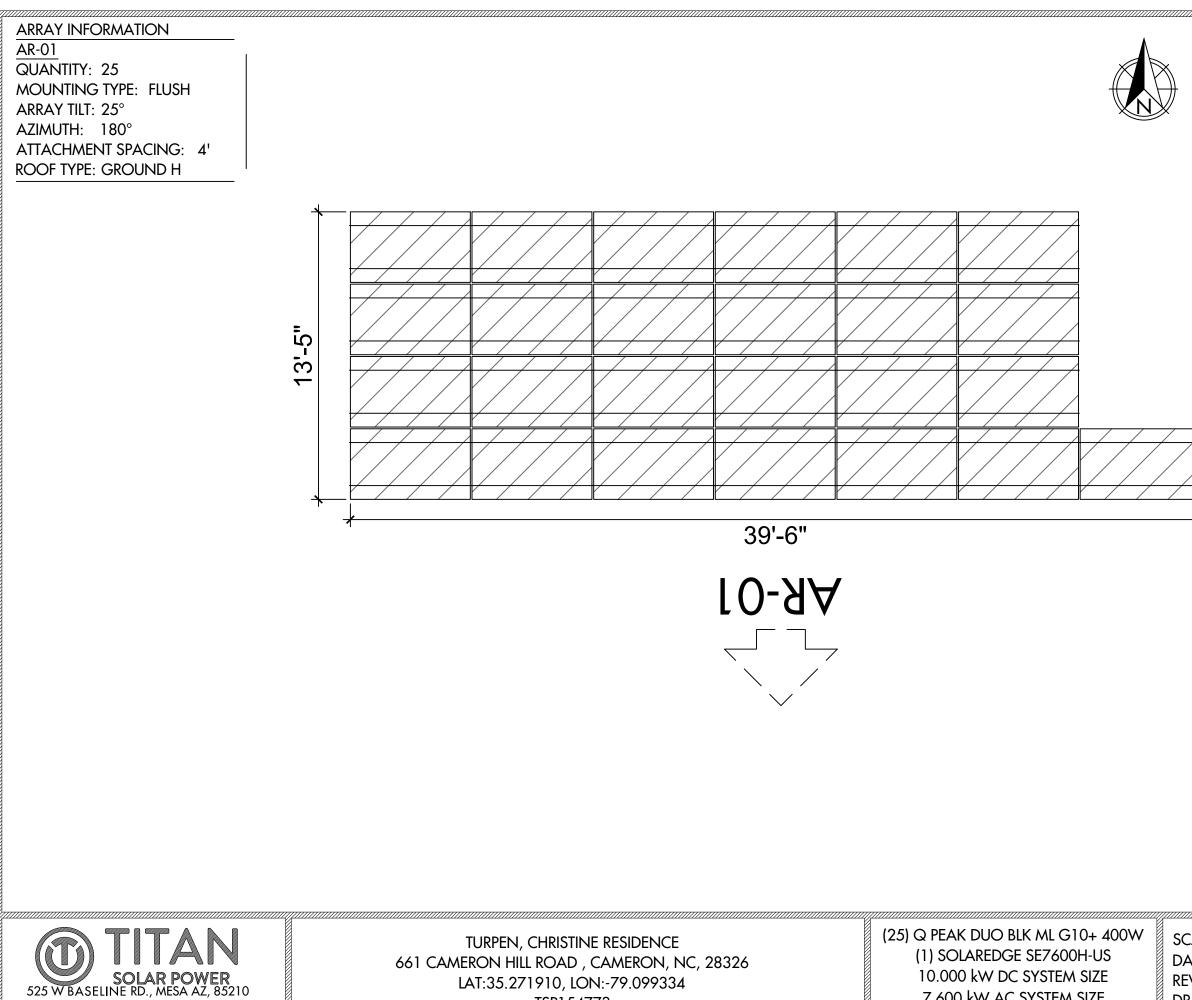
## PROJECT NOTES

- 1. UTILITY SHALL HAVE 24HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC COMPONENTS LOCATED AT SES EQUIPMENT
- 2. NO LOCKED GATES, DOGS, ETC SHALL IMPEDE ACCESS TO SES EQUIPMENT
- 3. WORKSPACE IN FRONT OF AC ELECTRICAL SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH CENTRAL ELECTRIC MEMBERSHIP CORPORATION AND NEC REQUIREMENTS.



5/11/2023





TSP154773

CONTRACTOR LIC# U.34445

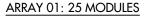
10.000 kW DC SYSTEM SIZE 7.600 kW AC SYSTEM SIZE

DATE: 5/8/2023 REV:A PV LAYOUT PV LAYOUT PV LAYOUT	050296	
JEAL:	DATE: 5/8/2023	г.



- LOCATION OF SEPTIC TANK IS UNKNOWN •
- GROUND TYPE:C •
- ARRAY COVERAGE = 22.12% •
- TOTAL ARRAY AREA = 528.02 SQ-FT •
- TOTAL ROOF AREA = 2387 SQ-FT
- ٠
- NOTES ROOF VENTS, SKYLIGHTS, WILL NOT BE • COVERED UPON PV INSTALLATION

		Sub array #1		
MODULE & RACKING INFORMATION	HELICAL	Rows	4	Columns
MODULE: Q PEAK DUO BLK ML G10+ 400W	ROOF & FRAMING INFORMATION	Area	43' 4" (EW) × 14' (NS)	Rail type
Module Weight: 48.50 LBS Module Dimensions: 74''x 41.1'' x 1.5"	MATERIAL: GROUND H RAFTER/TRUSS SIZE: '' × ''	E/W spacing	14' 1"	Rail canti
RACKING/RAIL: XR1000 / XR1000 RAIL CANTILEVER	RAFTER/TRUSS SPACING: 2'	Piers/array	8	Total sou
ROOF ATTACHMENT : HELICAL PILE PACKAGE - U.S.		Total cross pipes	2 (43' 4")	Total pipe
		Shear	1,101 lbs	Moment



## UPLIFT = 15840.63 LBS.

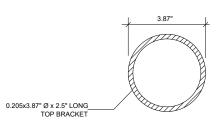
POINT LOAD = 0.00 LBS. PER MOUNTING POINT

<u>PULLOUT STRENGTH = 0.00 LBS</u>.

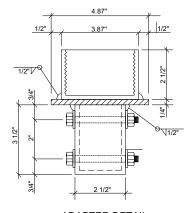
DISTRIBUTED LOAD = 2.46 PSF

MODULE & RACKING WEIGHT = 1300.00 LBS

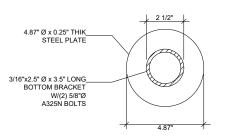
4.87" Ø x 0.25" THIK\_ STEEL PLATE



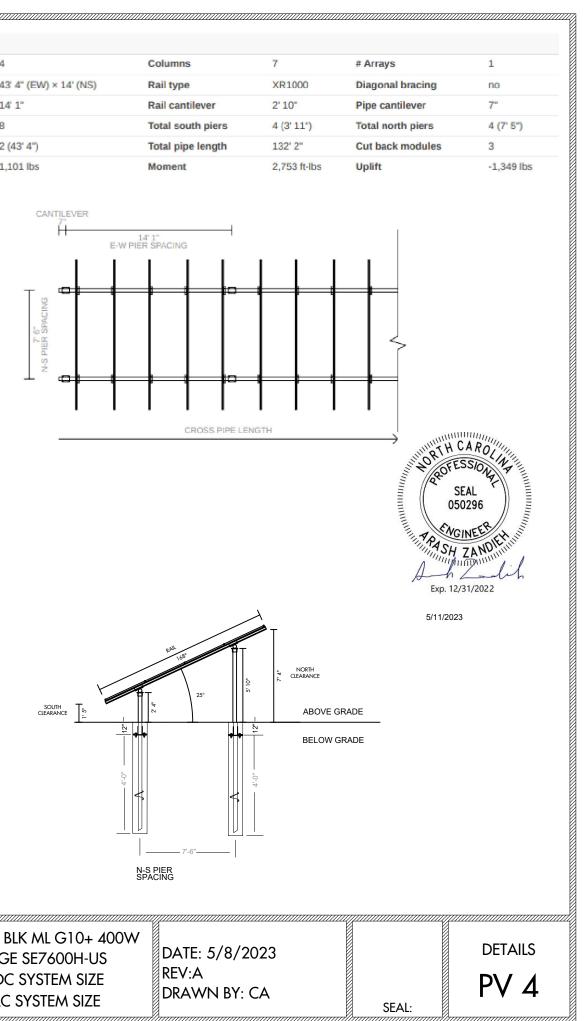
TOP BRACKET PLAN VIEW

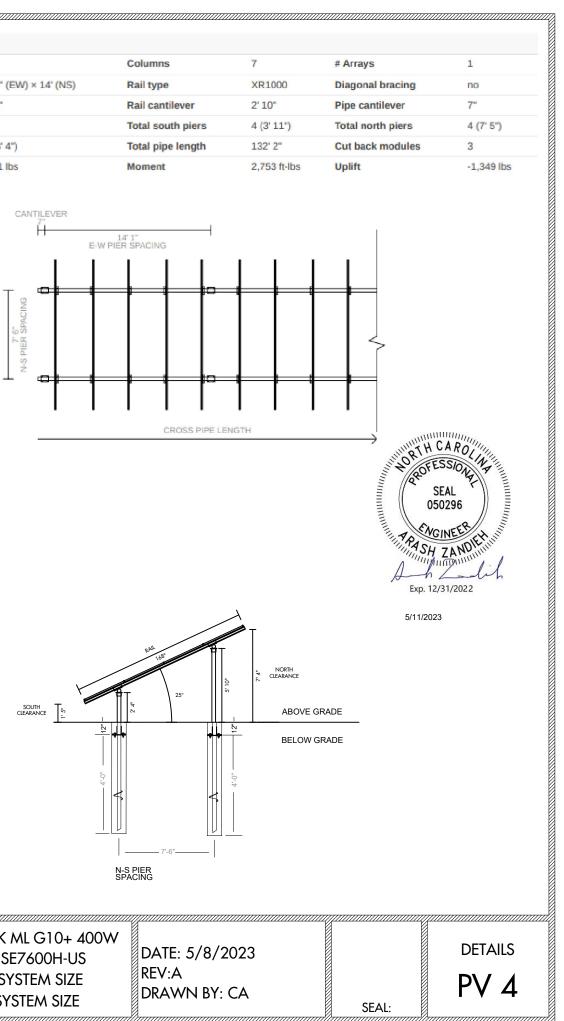


ADAPTER DETAIL



BOTTOM BRACKET PLAN VIEW







TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

\_0.205x3.87" Ø x 2.5" LONG TOP BRACKET

3/16"x2.5" Ø x 3.5" LONG BOTTOM BRACKET

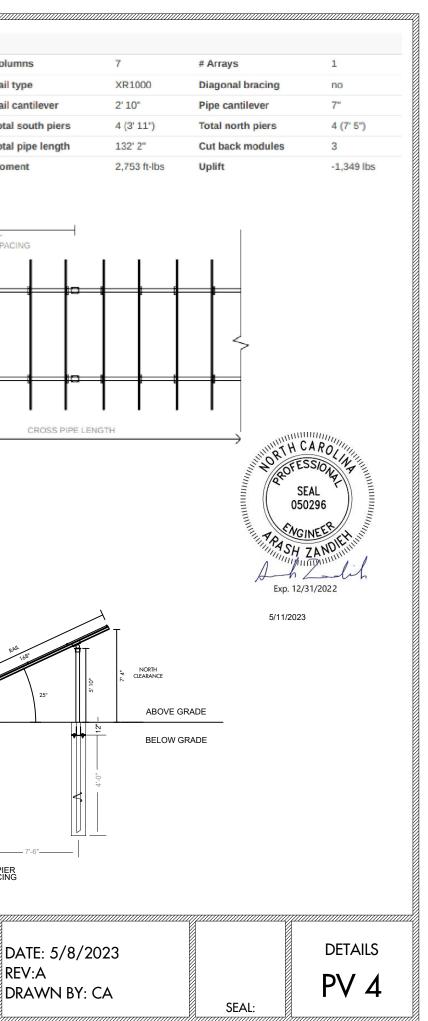
. (2)2/8"Ø A325N BOLTS

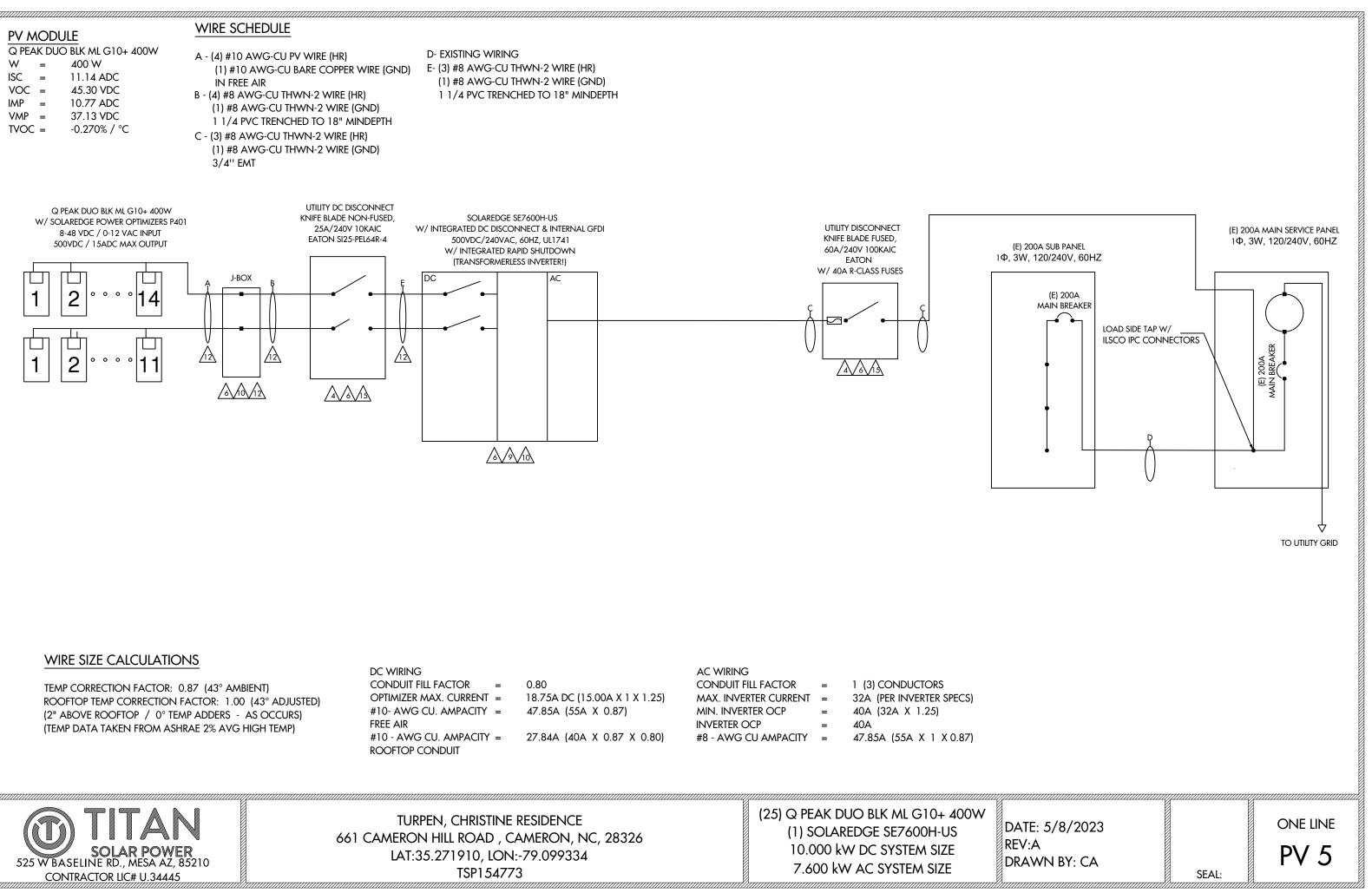
. HELICAL PILE BY OTHERS

/1/2"

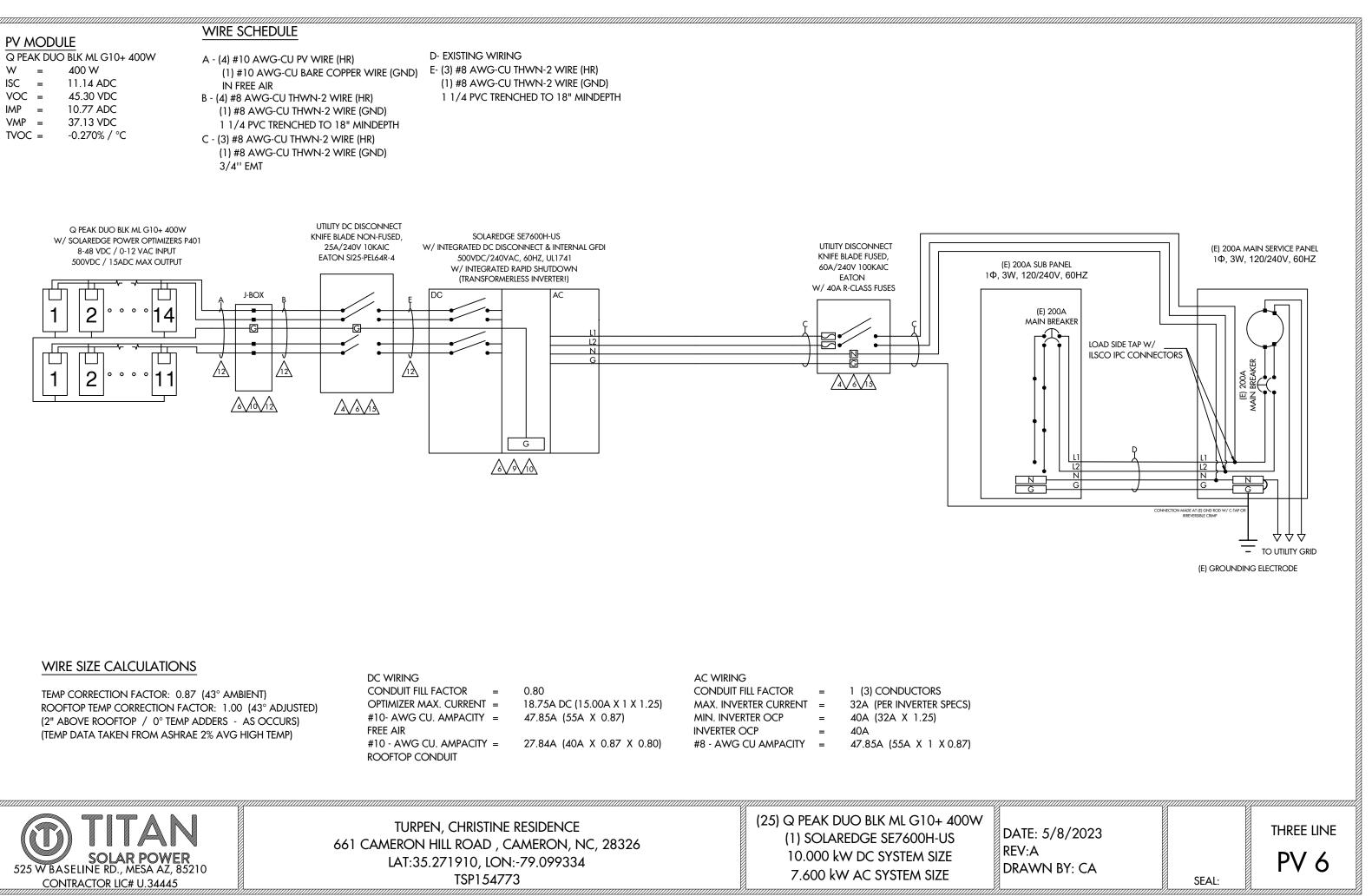
**B** 

(25) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE7600H-US 10.000 kW DC SYSTEM SIZE 7.600 kW AC SYSTEM SIZE

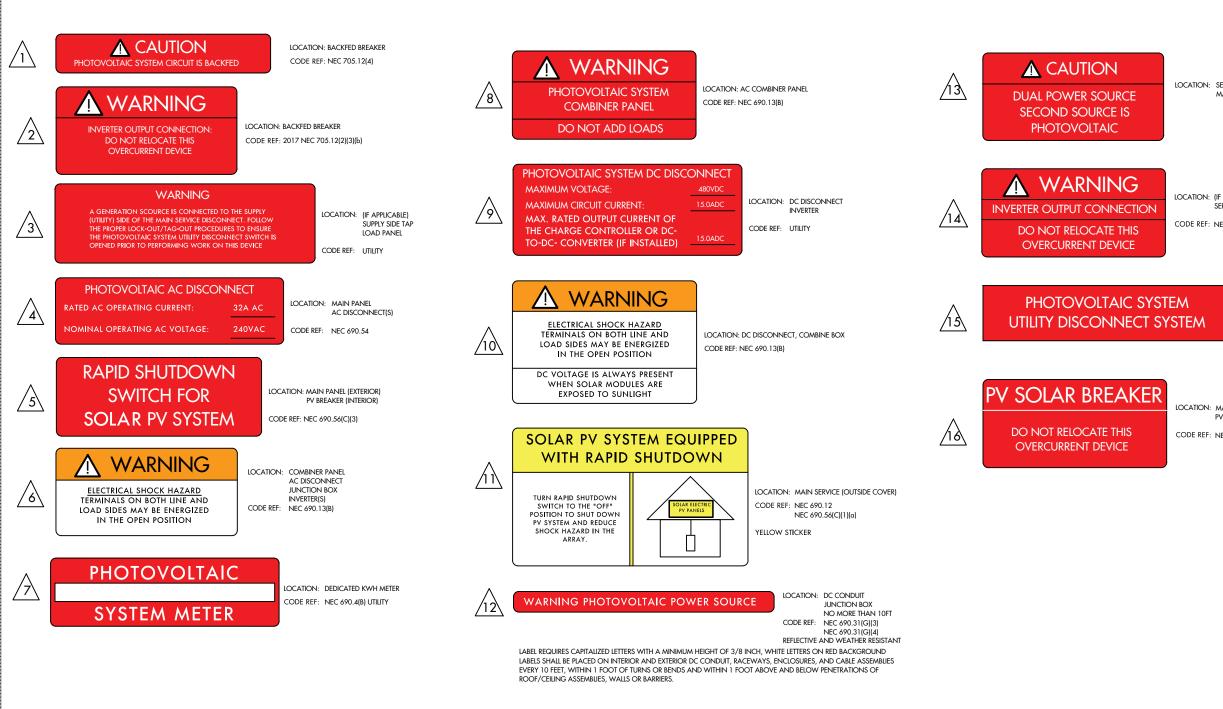














TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

## (25) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE7600H-US 10.000 kW DC SYSTEM SIZE 7.600 kW AC SYSTEM SIZE

LOCATION: SERVICE METER MAIN PANEL

LOCATION: (IF APPLICABLE) SERVICE PANEL

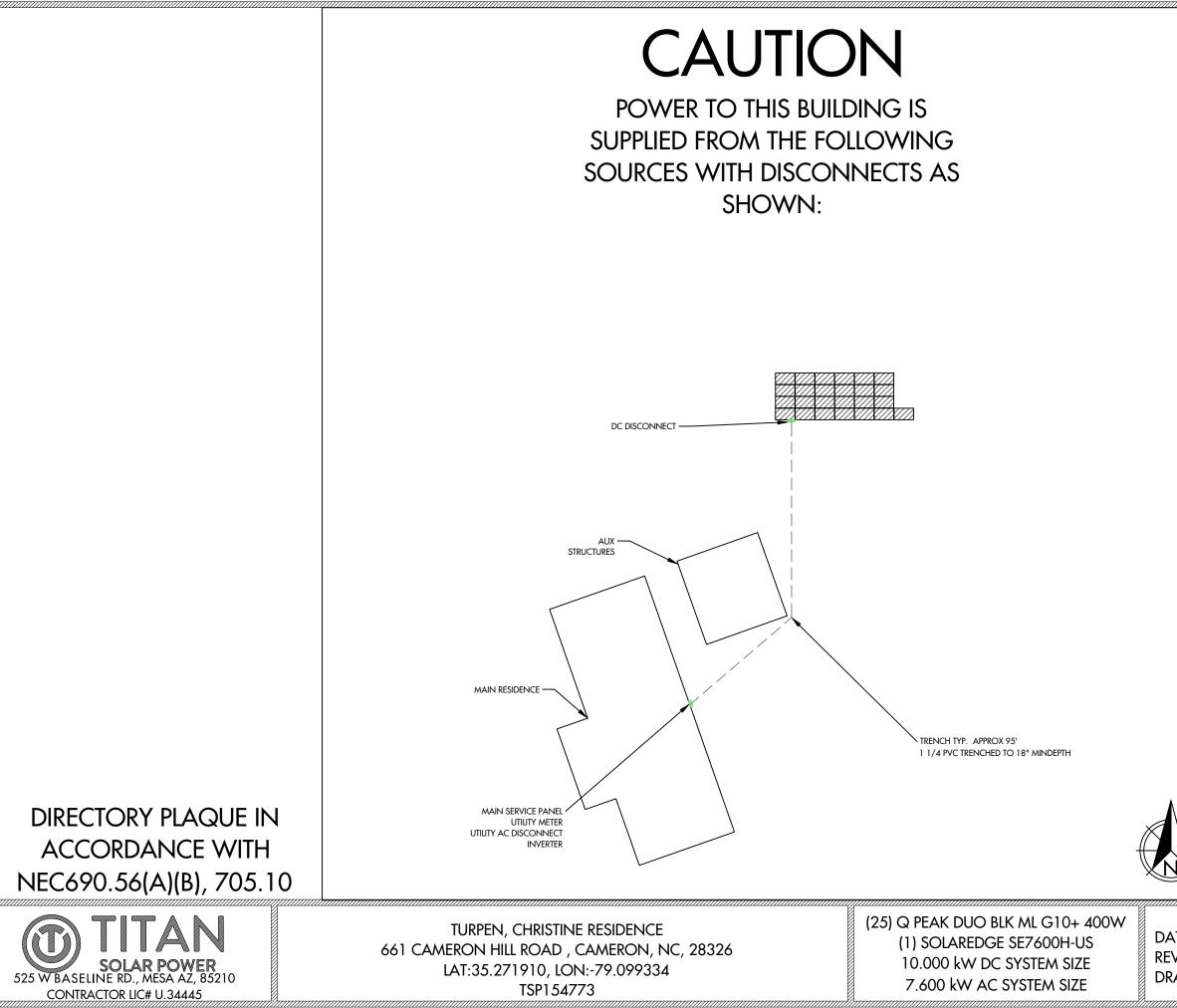
CODE REF: NEC 705.12(7)

LOCATION: AC DISCONNECT CODE REF: UTILITY

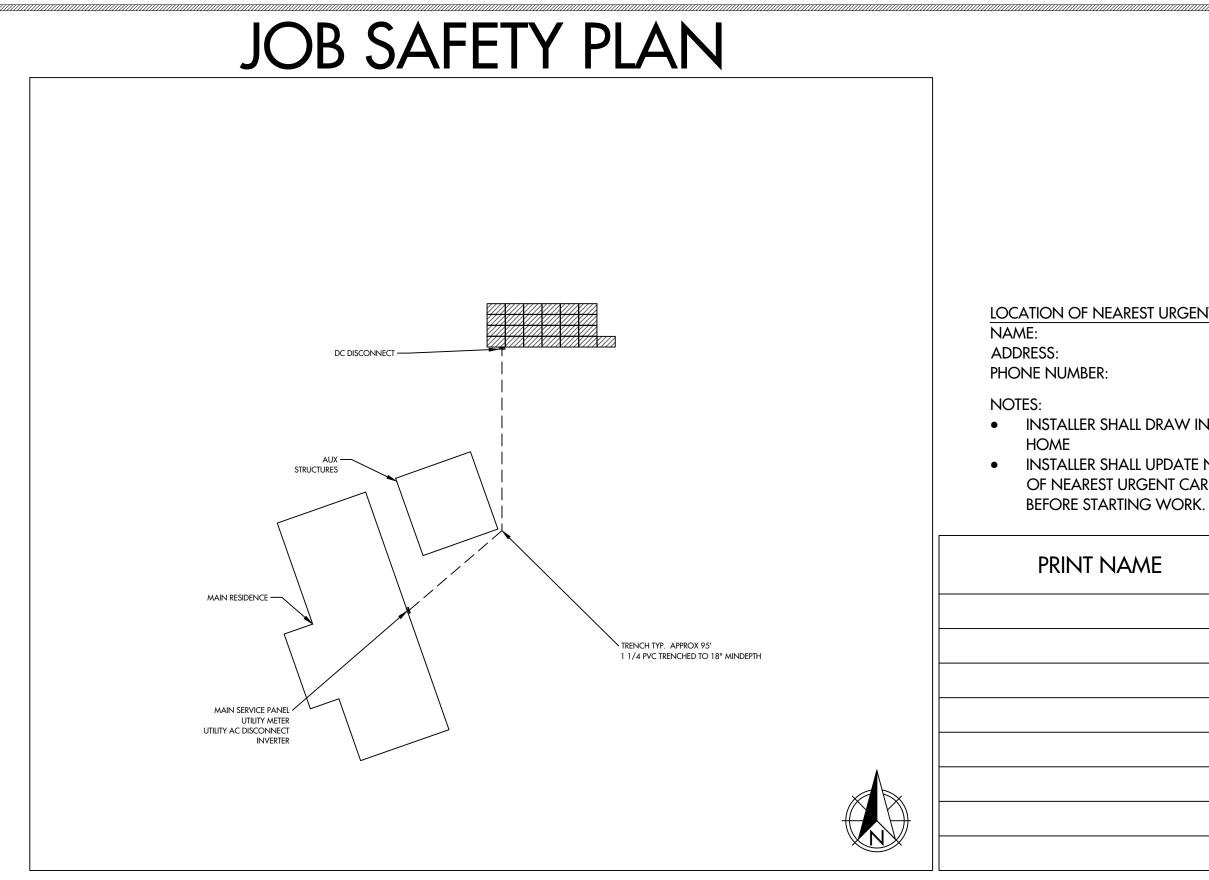
LOCATION: MAIN PANEL:(EXTERIOR) PV BREAKER: (INTERIOR)

CODE REF: NEC 705.12(B)(2)(3)(B)

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
DATE: 5/8/2023			LABELS
REV: A DRAWN BY: CA		= ^ 1 ·	PV 7
	SI	EAL:	PV 7



ATE: 5/8 EV: A RAWN E		SEAL:	placard PV 8	





TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

(25) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE7600H-US 10.000 kW DC SYSTEM SIZE 7.600 kW AC SYSTEM SIZE

## LOCATION OF NEAREST URGENT CARE FACILITY

## INSTALLER SHALL DRAW IN DESIGNATED SAFETY AREA AROUND

# INSTALLER SHALL UPDATE NAME, ADDRESS, AND PHONE NUMBER OF NEAREST URGENT CARE FACILITY RELATIVE TO THE JOB SITE

ME	INITIAL	YES	NO

SEAL:

DATE: 5/8/2023
REV: A
DRAWN BY: CA

SAFETY PLAN **PV 9** 

# 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 / UL1741 SA certified, for CPUC Rule 21 grid compliance
- Record-breaking 99% weighted efficiency
- 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, NEC 2017 and NEC 2020 per article 690.11 and 690.12

solaredge.com



Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)



INVERTERS

# / Single Phase Inverter with HD-Wave Technology

## for North America

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

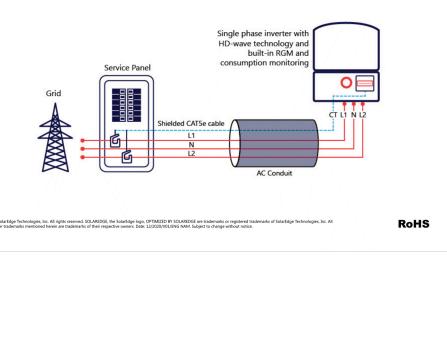
MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER			SE	ххххн-ххххх	BXX4			
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum 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)	~	~	~	~	~	~	~	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	1	-	1	-	-	~	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5				Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	-	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	-	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded				Yes				
Maximum Input Voltage				480				Vdc
Nominal DC Input Voltage		3	380			400		Vdc
Maximum Input Current @240V <sup>(2)</sup>	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V <sup>(2)</sup>	-	9	-	13.5	-	-	27	Adc
Max. Input Short Circuit Current				45				Adc
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection		600kΩ Sensitivity						
Maximum Inverter Efficiency	99			ç	19.2			%
CEC Weighted Efficiency		99 @ 240V 99 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

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

MODEL NUMBER	S
ADDITIONAL FEATURES	
Supported Communication Interfaces	
Revenue Grade Metering, ANSI C12.20	
Consumption metering	
Inverter Commissioning	
Rapid Shutdown - NEC 2014, NEC 2017 and NEC 2020, 690.12	
STANDARD COMPLIANCE	
Safety	Τ
Grid Connection Standards	
Emissions	
INSTALLATION SPECIFICA	тю
AC Output Conduit Size / AWG Range	
DC Input Conduit Size / # of Strings / AWG Range	
Dimensions with Safety Switch (HxWxD)	
Weight with Safety Switch	
Noise	
Cooling	
Operating Temperature Range	
Protection Rating	

How to Enable Consumption Monitoring





TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

## (25) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE7600H-US 10.000 kW DC SYSTEM SIZE 7.600 kW AC SYSTEM SIZE

DATE: 5/8/2023

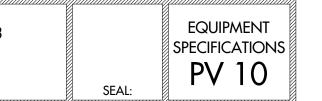
REV: A DRAWN BY: CA

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

00H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
		RS485, Ethernet,	ZigBee (optional), C	ellular (optional)			
			Optional <sup>(3)</sup>				
	With the SetA	op mobile application	n using Built-in Wi-Fi	Access Point for Lo	cal Connection		
		Automatic Rapid	Shutdown upon AC	Grid Disconnect			
	UL1741, U	L1741 SA, UL1699B, 0	SA C22.2, Canadian	AFCI according to	T.I.L. M-07		
		IEEE1	1547, Rule 21, Rule 14	. (HI)			
			FCC Part 15 Class B				
	1''	Maximum / 14-6 AV	VG		1" Maximum	/14-4 AWG	
	1" Maxir	num / 1-2 strings / 14	4-6 AWG		1" Maximum / 1-3	strings / 14-6 AWG	
	17.7 x	14.6 x 6.8 / 450 x 37	0 x 174		21.3 x 14.6 x 7.3 /	′ 540 x 370 x 185	in / mm
22	/ 10	25.1 / 11.4	26.2	/ 11.9	38.8 ,	/ 17.6	lb / kg
	< 25 <50						
			Natural Convection				
		-40	) to +140 / -40 to +6	0(4)			°F / °C
		NEMA 4>	(Inverter with Safet	y Switch)			

5000BNC4; Inverter with Rev 0 or SEACT0750-400NA-20. 20 units per box rating information refer to: https://www.solare

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



## intertek Total Quality. Assured.

Intertek 3933 US Route 11 Cortland, NY 13045 Telephone: 607-753-7311 www.intertek.com

Subject: ETL Evaluation of SolarEdge Products to Rapid Shutdown Requirements

To, whom it may concern

This letter represents the testing results of the below listed products to the requirements contained in the following standards:

The evaluation was done on the PV Rapid Shutdown System (PVRSS), and covers installations consisting of optimizers and inverters with part numbers listed below.

- The testing done has verified that controlled conductors are limited to:
  - Not more than 30 volts and 240 voltamperes within 30 seconds of rapid shutdown initiation outside the array.
  - Not more than 80 volts and 240 voltamperes within 30 seconds of rapid shutdown initiation inside the array.

The rapid shutdown initiation is performed by either disconnecting the AC feed to the inverter, or – if the inverter DC Safety switch is readily accessible – by turning off the DC Safety switch.

## Applicable products:

- (1) Power optimizers:
- PB followed by 001 to 350; followed by -AOB or -TFI.
- OP followed by 001 to 500; followed by -LV, -MV, -IV or -EV. P followed by 001 to 1100.
- SP followed by 001 to 350.

When optimizers are connected to 2 or more modules in series, the max input voltage may exceed 80V. Following the implementation of the NEC 2017 rapid shutdown value of 80V max inside of the array at the beginning of 2019, modules exceeding this combined input max voltage will be required to use optimizers with parallel inputs. Also meeting NEC 2020 rapid shutdown requirement.

(2) 1 -PH Inverters

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US / SE7600A-US / SE10000A-US / SE11400A-US / SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US when the following label is labeled on the side of the inverter:

Inverter part number may be followed by a suffix.

(3) 3 -PH Inverters

intertek Total Quality. Assured.

## Intertek 3933 US Route 11 Cortland, NY 13045 Telephone: 607-753-7311 www.intertek.com

SE9KUS / SE10KUS / SE14.4KUS/ SE16.7kUS / SE17.3kUS / SE20KUS/ SE24KUS / SE30KUS / SE33.3KUS / SE40KUS / SE43.2KUS / SE50KUS / SE66.6KUS / SE80KUS / SE50KUS / SE120KUS; when the following label is labeled on the side of the inverter:

Please note, this Letter Report does not represent authorization for the use of any Intertek certification marks.

Brand Name(s)	SolarEdge
Relevant Standard(s)	UL 1741, UL 1741 CRD for rapid shutdown
	National Electric Code, 2020, Section 690.12 requirement for rapid shutdown
Verification Issuing Office	3933 US Route 11, Cortland, NY 13045

NRTL Disclaimer, Different for each NRTL – Example: "This Verification is for the exclusive use of NRTL's Client and is provided pursuant to the agreement between NRTL and its Client. NRTL's responsibility and liability are limited to the terms and conditions of the agreement. NRTL 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. Any the Client is authorized to copy or distribute this Verification. Any use of the NRTL name or one of its marks for the asie or advertisement of the tested material, product or service must first be agroved in writing by NRTL. The observations and test results referenced from this Verification are relevant only to the sample tested. This Verification by itself does not imply that the material, product, or service is or has ever been under an NRTL certification program."

Signature:

Name: Mukund Rana Position: Staff Engineer Date:5/17/2021

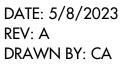


**Date** 5/17/2021 G104683664CR



TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773 Intertek 3933 US Route 11 Cortland, NY 13045 Telephone: 607-753-7311 www.intertek.com

	Engineer / Reviewer	Description
RΤ	Dishant Patel	Added New 3-PH Inverter model SE50KUS, SE80KUS, SE85KUS and SE120KUS.
	Mukund Rana	Updated Power optimizers from "P followed by 001 to 960" to "P followed by 001 to 1100"
		Updated NEC standard from "National Electric Code, 2017, Section 690.12 requirement for rapid shutdown" To "National Electric Code, 2020, Section 690.12 requirement for rapid shutdown"





# **Power Optimizer**

For North America P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505



## PV power optimization at the module-level

- I Specifically designed to work with SolarEdge inverters
- / Up to 25% more energy
- Superior efficiency (99.5%)

solaredge.com

- 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
- I 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

**OPTIMIZE** 

ア

# / Power Optimizer

## For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / 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)	P401 (for high power 60 and 72 cell modules)	P405 (for high- voltage modules)	P485 (for high- voltage modules)	P505 (for higher current modules)	
INPUT									
Rated nput DC Power®	320	340	370	4	00	405	485	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	4	8	60	80	60	12	5(2)	83(2)	Vdc
MPPT Operating Range	8 -	48	8 - 60	8 - 80	8-60	12.5	- 105	12.5 - 83	Vdc
Maximum Short Circuit Current (Isc)		11		10.1	11.75	1	1	14	Adc
Maximum Efficiency				99.	5				%
Weighted Efficiency				98.8				98.6	%
Overvoltage Category				1					
OUTPUT DURING OPER	ATION (POV	VER OPTIMI	ZER CONNEC	TED TO OPE	RATING SOI	LAREDGE IN	VERTER)		
Maximum Output Current				15	i				Adc
Maximum Output Voitage			60				85		Vdc
OUTPUT DURING STAND	DBY (POWER	OPTIMIZER	DISCONNECT	ED FROM SC	DLAREDGE IN	VERTER OR	SOLAREDG	E INVERTER O	OFF)
Safety Output Voltage per Power Optimizer				1±	0.1				Vdc
STANDARD COMPLIAN	CE								
EMC			FCC Pa	rt15 Class 3, IEC6	1000-6-2, IEC6100	0-6-3			
Safety		IEC62109-1 (class   safety), U_1741							
Material		UL94 V-0 , UV Resistant							
RoHS	Yes								
INSTALLATION SPECIFIC	CATIONS								
Maximum Allowed System Voltage				100	00				Vdc
Compatible inverters			All SolarE	dge Single Phase	and Three Phase i	inverters			
Dimensions (W x L x H)	129	129 x 153 x 23.5 129 x 153 x 29.5 129				129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm ∕in		
Weight (including cables)		630 / 1.4		750 / 1.7	655 / 1.5	845	/ 1.9	1064 / 2.3	gr/lb
Input Connector	MC4 <sup>(3)</sup> Single or dua MC4 <sup>(3)</sup> MC4 <sup>(3)</sup>								
Input Wire Length				0.16 /	0.52				m/ft
Output Wire Type / Connector				Double Insul	ated / MC4				
Output: Wire Length	0.9 /	2.95			1.2 /	3.9			m / ft
Operating Temperature Range®				-40 - +85 /	-40 - +185				°C / *=
Protection Rating				IP68 / N	EMA6P				
Relative Humidity				C - 1	00				%

Rated power of the module at STC will not exceed the optimizer 'Rated Input DC Power'. Modules with up to +5% power lolerance are allowed
 Ref. 2017 requires maxinput voltage be not more than 80%
 For other connector types places contract SolarEdge
 For other connector types places contract SolarEdge
 For other connecting as neglementing as ingle modules and the unused input connector with the supplied pair of seels.
 For other contracting as neglementing as neglement of a solar end of the unused input connector with the supplied pair of seels.
 For ambient temperature above +85°C / +183°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details.

PV System De a SolarEdge I	esign Using nverter <sup>(6)(7)</sup>	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length P320, P340, P370, P400, P401		8	8		18	
(Power Optimizers)	P405, P485, P505	6	1	8	14	
Maximum String Length (Powe	r Optimizers)	25	ō	25	50(8)	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400- US)	5250	6000%	1275C <sup>(10)</sup>	W
Parallel Strings of Different Lengths or Orientations				Yes		

(6) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/iles/string\_sizing\_na.pdf (7) It is not allowed to mk 255/P485/P505 with P320/F320/P370/P420/P370/P420/P420/It in one string (8) A string with more than 30 opermizers does not meet NEC rapid shutdown requirements safety voltage will se above the 30V requirement (9) For 23/V40V grid. It is allowed to install up to 7,230W per string when the maximum power difference between each string is 1,000W (0) For 27/V40V grid. It is allowed to install up to 7,230W per string when the maximum power difference between each string is 2,000W

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TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

## (25) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE7600H-US 10.000 kW DC SYSTEM SIZE 7.600 kW AC SYSTEM SIZE



REV: A



EQUIPMENT DATE: 5/8/2023 **SPECIFICATIONS** PV 12 DRAWN BY: CA SEAL:

## **MECHANICAL SPECIFICATION**



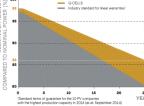
Q PEAK DUO BLK ML-G10+

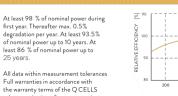
395-400

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)	п
FRONT COVER	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology	
BACK COVER	Composite film	
FRAME	Black anodized aluminum	
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	4 mm² Solar cable; (+) ≥ 49.2 in (1250 mm), (-) ≥ 49.2 in (1250 mm)	
CONNECTOR	Stäubli MC4; IP68	U

## **ELECTRICAL CHARACTERISTICS** POWER CLASS 385 MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ' (POWER TOLERANCE +5 W / -0 W) POWER AT MPP Рмее 385 [W] 390 SHORT CIRCUIT CURRENT [A] 11.04 11 OPEN CIRCUIT VOLTAGE [V] 45.19 45 CURRENT AT MPP 10.59 [A] VOLTAGE AT MPR VMDD [V] 36.36 36 EFFICIENCY [%] ≥19.6 ≥1 MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT POWER AT MPP 288.8 [W] SHORT CIRCUIT CURREN [A] 8.90 OPEN CIRCUIT VOLTAGE 42.62 [V] CURRENT AT MPP 8.35 [A] VOLTAGE AT MPP V<sub>MPP</sub> 34.59 [V] <sup>1</sup>Measurement tolerances Pure ±3%; lec; Voc ±5% at STC; 1000 W/m<sup>2</sup>, 25 ± 2 °C, AM 1.5 acc rding to IEC 60904-3 • 28

## Q CELLS PERFORMANCE WARRANTY





25 years.

Typical module perform comparison to STC cor

PERFORMANCI

TEMPERATURE COEFFICIENTS

tion of you

TEMPERATURE COEFFICIENT OF I	SC	α [%/K]	+0.04 T	EMPERATURE COEFFICIENT OF Voc	β	[%/K]	-0.27
TEMPERATURE COEFFICIENT OF F	MPP	γ [%/K]	-0.34 N	IOMINAL MODULE OPERATING TEMPERATURE	NMOT	[°F]	109±5.4 (43±3°C)
		PROP	ERTIES FO	R SYSTEM DESIGN			
Maximum System Voltage V SYS	[V]	1000 (IE	C)/1000 (UL)	PV module classification			Class II
Maximum Series Fuse Rating	[A DC]		20	Fire Rating based on ANSI / UL 61730			TYPE 2
Max. Design Load, Push / Pull <sup>3</sup>	[lbs/ft2]	75 (3600 Pa)	/55 (2660 Pa)	Permitted Module Temperature			–40°F up to +185°F
Max. Test Load, Push / Pull <sup>3</sup>	[lbs/ft2]	113 (5400 Pa),	/84 (4000Pa)	on Continuous Duty			(–40°C up to +85°C)
<sup>3</sup> See Installation Manual							

## **QUALIFICATIONS AND CERTIFICATES**

UL 61730, CE-compliar Quality Controlled PV - TÜV Rheinland IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells), **OCPV** Certification ongoing.

 $\triangle$ CE 
 Horizontal
 76.4 in
 43.3 in
 48.0 in
 1656 lbs
 24
 24
 32

 packaging
 1940 mm
 1100 mm
 1220 mm
 751 kg
 pallets
 pallets
 modules

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service departme this product

QCELLS

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA TEL: +1 949 748 5996 EMAIL: sales@q-cells.co





TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

THE IDEAL SOLUTION FOR:

Rooftop arrays on residential buildings

## (25) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE7600H-US 10.000 kW DC SYSTEM SIZE 7.600 kW AC SYSTEM SIZE



S25 W Baseline Rd., Mesa, AZ, 85210 TEL: 855.SAY.SOLAR EMAIL: info@litiansolarpower.com ATE: 5/8/2023 EV: A RAWN BY: CA SEAL:	t for further information on approved installation and use of	ٿ ج	
EV: A RAWN BY: CA PV 13	525 W Baseline Rd., Mesa, AZ, 852 TEL: 855.SAY.SOLAR EMAIL: info@itiansolarpower.com	210	
	EV: A	SEAL:	SPECIFICATIONS

# PACKAGING INFORMATION

5 Z

53'

40'HC

rmance under low irradianc onditions (25      °C, 1000		in	
	_		-
	β	[%/K]	-0
ATING TEMPERATURE	NMOT	[°F]	109±5.4 (43±3

## 800

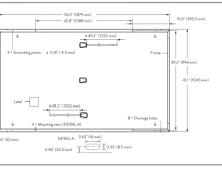
000	000	100	100
1.07	11.10	11.14	11.17
5.23	45.27	45.30	45.34
0.65	10.71	10.77	10.83
6.62	36.88	37.13	37.39
19.9	≥20.1	≥20.4	≥20.6
92.6	296.3	300.1	303.8
8.92	8.95	8.97	9.00
2.65	42.69	42.72	42.76
8.41	8.46	8.51	8.57
4.81	35.03	35.25	35.46
00W/m², NN	IOT, spectrum AM 1.	5	
AT LOW IRF	RADIANCE		

400

400

405

405

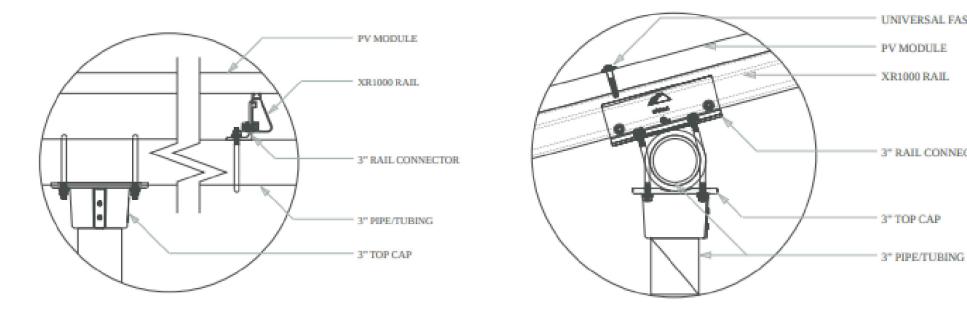


395

395

## **Pipe Fitting Detail**

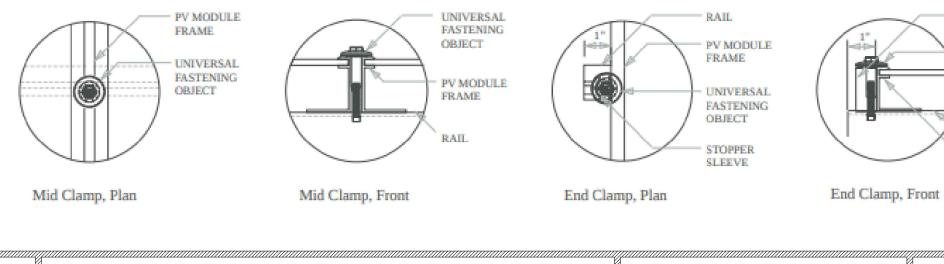
## XR1000 Rail



Front View

Side View

## **Clamp Detail**





TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

## (25) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE7600H-US 10.000 kW DC SYSTEM SIZE 7.600 kW AC SYSTEM SIZE

## UNIVERSAL FASTENING OBJE

3\* RAIL CONNECTOR

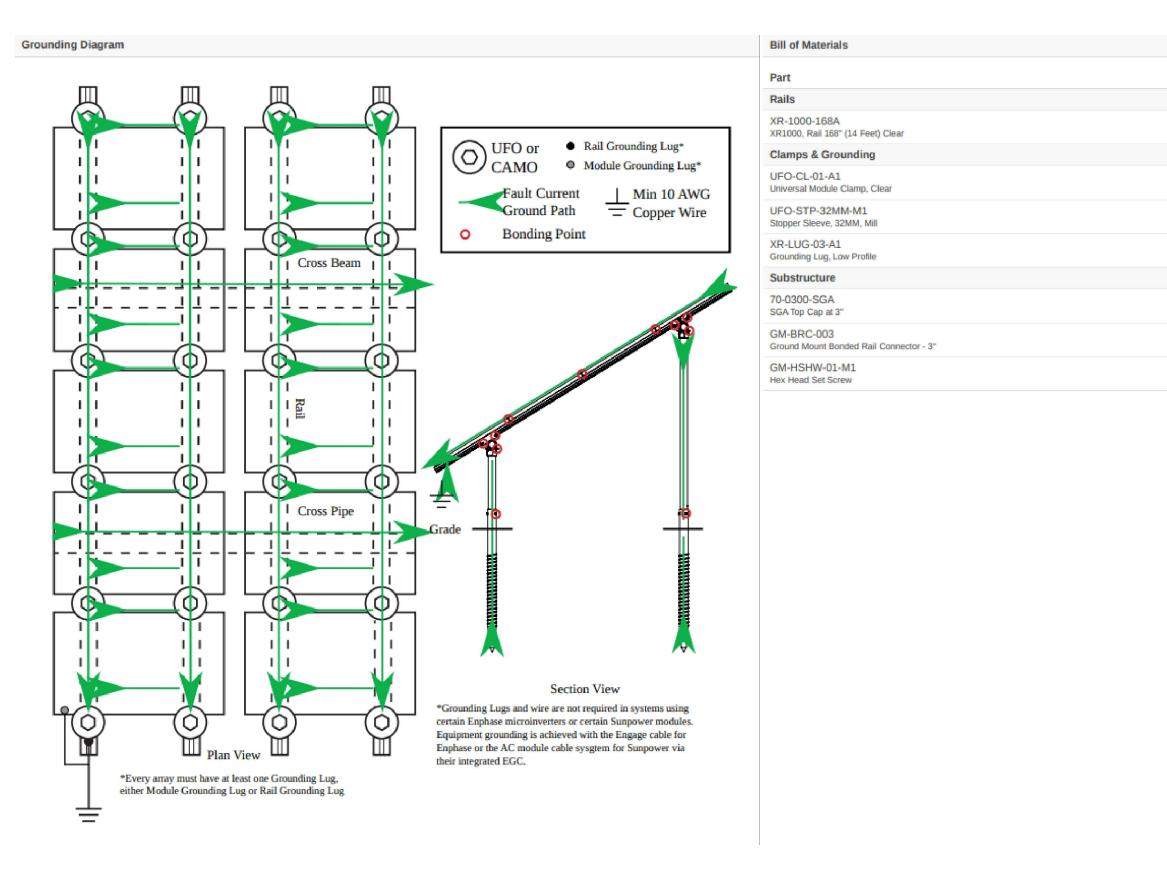
STOPPER SLEEVE

UNIVERSAL FASTENING OBJECT

RAIL PV MODULE FRAME

DATE: 5/8/2023 REV: A DRAWN BY: CA

EQUIPMENT **SPECIFICATIONS** PV 14





TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

## (25) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE7600H-US 10.000 kW DC SYSTEM SIZE 7.600 kW AC SYSTEM SIZE

D. RI D

Spares	Total Qty	
0	14	
0	64	
0	28	
0	1	
0	8	
0	28	
0	32	

		//////////////////////////////////////
DATE: 5/8/2023		EQUIPMENT
EV: A		SPECIFICATIONS
DRAWN BY: CA		PV 15
	SEAL:	••••

# solaredge

# **Recommended OCPD Size per Grid**

Inverter	Maximum Output Current (A)	Minimum Fuse Rating (A)	Maximum Fuse Rating (A)
SE3000H-US	12.5	20	50
SE3800H-US	16	20	50
	24 @ 208V	20	50
SE5000H-US	21 @ 240V	30	50
SE6000H-US	24 @ 208V	30 @ 208V	FO
	25 @ 240V	35 @ 240V	50
SE7600H-US	32	40	50
SE10000H-US	42	60	80
SE11400H-US	48.5 @ 208V	70 @ 208V	80
	47.5 @ 240V	60 @ 240V	00

SolarEdge Single Phase Inverter with HD-Wave Technology Installation MAN-01-00541-1.1



TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

## **85**

DATE: 5/8/2023 REV: A DRAWN BY: CA





Data according	to IEC 60947-3, VDE 0660, GB14048	8.3						
Main Contacts			Туре	SI16	SI25	SI32	SI40	
Rated operational curre	ent l <sub>e</sub>	500V	А	1	1.25	1.5	x	
DC22B	1 pole	600V	A	0.5	0.75	1	x	
DGZZB	1	800V	А	0.3	0.4	0.5	x	
L/R = 2.5ms		1000V	A	0.15	0.2	0.25	x	
		1200V	А	~	-	-	x	
		1500V	А	-	-	-	X	
	2 poles in series	500V	A	7	8	9	x	
	$\frac{2}{1}$	600V	А	5.5	6	6.5	x	
		800V	A	2	2.5	3	x	
		1000V	A	1	1.5	2	x	
		1200V	A	-	-	-	х	
		1500V	А	-	-	-	х	_
	4 poles in series	500V	A	16	25	32	x	
	45	600V	A	16	25	27.5	x	
	1/2/3/4/	800V	A	11.5	12	12.5	x	
		1000V	A	8	9	10	x	
		1200V	A	~	-	-	x	
Rated conditional short	t circuit current	1500V	A	-	- r	-	X 40	
Max. fuse size		al (aC)	kA <sub>eff</sub> A	5 40	5 63	5 80	10 125	
Machanical Life	y	gL (gG)	x10 <sup>3</sup>	40	10	10	125	ľ
	l <sub>ev</sub> 2.	. 4, 6, 8	1.0	800	900	1000		
Rated short-time withstand current (1s)		, 4, 6, 8 , 3H, 4H	A A	1300	900 1500	1700	A2, A4: 1200 A2+2: 2000	
Short circuit making capacity	l <sub>ew</sub> 2, 2H,	, 4, 6, 8 , 3H, 4H	A A	800 1300	900 1500	1000 1700	A2, A4: 1200 A2+2: 2000	
Maximum cable cross :	sections (including jum	nper LSV-B1	)					ľ
solid or stranded			mm <sup>2</sup>	4 - 16	4 - 16	4 - 16	2.5 - 25	
flexible			$\rm mm^2$	4 - 10	4 - 10	4 - 10	4 - 16	
flexible (+ multicore cal	ole end)		$\rm mm^2$	4 - 10	4 - 10	4 - 10	2.5 - 16	
Size of terminal screw				M4 Pz2	M4 Pz2	M4 Pz2	M5 Pz2	
Tightening torque			Nm	1.2 - 1.8	1.2 - 1.8	1.2 - 1.8	2.5 - 2.8	
2 cables per clamp with	out jumper LSV-B 1 / LSV-B2							
	solid or stranded		mm <sup>2</sup>	16+(1.5-2.5)/1	0+(1.5-6)/6+(1.5	5-10)/4+(1.5-10)	16+(1.5-2.5) 6+(1.5-10	j
	flexible		mm <sup>2</sup>	16+(1.5	-2.5)/10+(1.5-4)/	6+(1.5-6)	16+ (1.5-6) 6+ (1.5-16	ľ
	& flexible + multicore cable end stranded		AWG	8+(16-12)/10	+ (16-10)/12+ (1	6-8)/14+(16-8)	3+ (18-10) 6+ (18-8	),
	solid		AWG	10+(16-1	2)/12+(16-10)/1	4+(16-10)	10+ (16-10) 14+ (16-10)/12+	),
Maximum ambient tem	perature							1
Operation	All types except PEL64R		°C			-40 to +65		
	PEL64R type		°C			-40 to +45		
Storage			°C			-50 to +70		
Power loss per switch a	∉l <sub>emsc</sub> DC21B							
2			W	0.8	2	3	4	
4 6			W W	1.6 2.4	4 6	6 9	8 12	
8			W	3.2	8	9 12	12	
2H 3H			W W	0.4	1	1.5 2.25	2 3	
3H 4H			W	0.6	1.5 2	2.25	3	



All all

**Technical Data** 

Data according to IEC 60947-3, VDE 0660, GB14048.3

16A	16A	9A	3A	16A	16A	16A	20	2	্র	0.43	Sh6 PEL64R 2	
25A	20A	11A	4.A.	20A	20A	20A		2	1	0.43	SI25 PEL64R2	1 3
32A	23A	13A	5A	25A	25A	25A	3	2	<u></u>	0.43	562 PEL64R2	++
40A	30A	20A	6A	40A	40A	40A	16A	2	1	1.59	SI40 PEL64R2	2 4
55A	45A	36A*	8A.	55A	55A	55A	20A	2	8 <b>0</b>	1.59	SI55 PEL64R2	
	7.57		22.22	2.77								
29A	164	9A	3A	29A	29A	21A	- 10 (100)	2	1	0.49	SH6 PEL64R2H	
45A	20A	11A	4A	45A	38A	234	1990 1990	2	đ	0.49	5125 PEL64R2H	
50A	234	13A	5A	58A	40A	254	8 <b>1</b> 3	2	1	0.49	5132 PEL64R2H	7777
64A	30A	20A	6A	72A	53A	42A	22A	2	55 <b>1</b>	1.74	SI40 PEL64R2H	2 4 6 8
80A	45A	25A	8A	85A	66A	55A	25A	2	1	1.74	SI55 PEL64R2H	
16A	16A	9A	3A	16A	16A	16A	(T)	2	2	0.46	SI16 PEL64R4	
25A	20 A	11A	4.4	20A	20A	20A	500	2	2	0.46	SI25 PEL64R4	1357
32A	23A	13A	54	25A	25A	25A	(*)	2	2	0.46	SI32 PE.64R4	11111
40A	30A	20A	64	40A	40A	40A	16A	2	2	1.67	SI40 PEL64R4	] ] ] ]
55A	45A	36A*	84	55A	55A	55A	20A	2	2	1.67	SI55 PEL64R4	17 (1) E2 (178)
164	16A	16A	16A	16A	164	16A	250	4	1	0.47	SI16 PEL64R4S	
25A	25A	25A	20A	25A	25A	25A	((*))	4	1	0.47	SI25 PEL64R45	
32A	32A	32A	23A	32A	32A	32A	243	4	্র	0.47	5152 PEL64R45	++++
40A	40A	40A	30A	404	40A	40A	40A	4	1	1.70	SI40 PIE.64R4S	
55A	55A	55A	40A	55A	55A	55A	55A	4	্র	1.70	SI55 PEL64R4S	
16A	16A	9A	3A	16A	16A	16A		2	3	1.53	SI16 PEL64R6	6 1 3 5 7 1 3
25A	20A	11A	4A	20A	20A	20A	1980. (283)	2	3	1.53	SI25 PEL64R6	أ <u>ر ار آر أر أر ا</u> ر
32A	23A	13A	5A	25A	25A	25A	8.00	2	3	1.53	5132 PEL64R6	()
PEN	con	194	yn.	evo.	600	690			2	1.50	0102 1 2204110	2 4 6 8 2 4
16A	16A	9A	3A	16A	16A	16A	2886	2	4	1.58	SI16 PEL64R8	1 3 5 7 1 3 5 7
25A	20A	11A	4A	20A	20A	20A	((*))	2	4	1.58	SI25 PEL64R8	++++++++
32A	23A	13A	5A	25A	25A	25A	- 10 m	2	4	1.58	5152 PEL64RB	
004		004	101	004	004	204	2000 C		24		Photophoto AD ALL	13571357
29A	29A	29A	164	29A	29A	29A		4	া	1.63	Sh6 PEL64R4H	$\lambda$
45A	45A	45A*	20A	45A	45A	45A	2286	4	1	1.63	SI25 PEL64R4H	ממממ
58A	58A*	58A*	23A	58A	58A	50A	3 <b>9</b> 3	4	1	1.63	SI62 PEL64R4H	24682468

Main Contacts			Туре	SI16	SI25	SI32	S140	SI55
Rated thermal curre	nt I <sub>the</sub>		A	16	25	32	40	55
Rated insulation vol	tage U, 1		V	1000	1000	1000	1500	1500
Rated insulation vol			v	1500	1500	1500	-	-
Distance of contacts			mm	8	8	8		
Rated operational of		300V	A	16	23	27	40	55
	1 pole	400V	A	12	14	16	30	40
DC21A	1	500V	A	9	11	13	19	25
& DC21B		600V	A	6	8	10	15	20
0.00210		700V	A	4.5	6	7.5	10	20 15
L/R = 1ms			A	4.5	4	5		10
J/h = IIIIs		900V	A	2.5	4	4	6 6	8
		1000V	A	1.5	2	2.5	4	6
DC21B	O seles is estim	500V	1.00	1.5	25	32	4	55
	2 poles in series 2		A	10000				
	2	600V	A	16	25	32	40	55
		700V	A	16	23	27	35	55
	<u>_1/_2/</u>	800V	A	16	20	23	30	45
		850V	A	-	-	25		-
		900V	A	13	16	20	25	35
		1000V	A	9	11	13	20	36
		1200V	A	6	8	10	10	15
		1500V	A	3	4	5	6	8
	2 poles in series	500V	A	29	45	58	72	85
	+ 2 poles parallel	600V	A	29	45	50	64	80
	2H	700V	A	16	23	27	35	55
	11 21	800V	А	16	20	23	30	45
	$\frac{1}{3}$	900V	A	13	16	20	25	35
		1000V	А	9	11	13	20	25
		1200V	A	6	8	10	10	15
		1500V	А	3	4	5	6	8
	3 poles in series	500V	A	29	45	58	-	-
	+ 2 poles parallel	600V	A	29	45	50	-	-
	3H	700V	A	29	38	45	-	-
		800V	A	29	38	45	-	-
		900V	А	29	38	45	-	-
	$\frac{1}{4}$ $\frac{2}{5}$ $\frac{3}{6}$	1000V	A	29	38	45	-	-
		1200	A	12	14	16		-
		1500V	A	9	11	13	-	-
	4 poles in series	500V	A	16	25	32	40	55
	45	600V	A	16	25	32	40	55
		700V	A	16	25	32	40	55
			A	16	25	32	40	55
	12/3/4	- 900V	A	16	25	32	40	55
		1000V	A	16	25	32	40	55
		1200V	A	16	25	32	40	55
		1200V 1500V	A	16	20	23	40 30	40
	4 poles in series	500V	A	29	45	58	00	40
	4 poles in senes + 2 poles parallel	500V 600V	A	29	40 45	58		
	+ 2 poies paranei 4H	700V		29	45 45	58	-	-
	40		A				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	1/2/3/4/	800V	A	29	45	58	-	
	$\frac{1}{5}$ $\frac{2}{6}$ $\frac{3}{7}$ $\frac{4}{8}$	900V	A	29	45	58	-	
		10001	A	29	45	58	-	-
		1200V	A	29	45	50	-	-
		1500V	A	16	20	23	1.7	-

U, max. 440V

U max, 440V

4T /4B configuration also available. For ratings refer to 4 S configuration. (See page 17) \* DC218

■ IP66

Specifications are subject to change without notice



TURPEN, CHRISTINE RESIDENCE 661 CAMERON HILL ROAD , CAMERON, NC, 28326 LAT:35.271910, LON:-79.099334 TSP154773

Rated operational current I

2.4

1) Suitable at overvoltage category I to III, pollution degree 3 (standard-industry): Uimp = 8kV. 2) Suitable at overvoltage category I to III, pollution degree 2 (min.IP55): Uimp = 8kV.

AC21B

## (25) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE7600H-US 10.000 kW DC SYSTEM SIZE 7.600 kW AC SYSTEM SIZE

27 28

Specifications are subject to change without notice

DATE: 5/8/2023 REV: A DRAWN BY: CA

EQUIPMENT **SPECIFICATIONS** PV 17