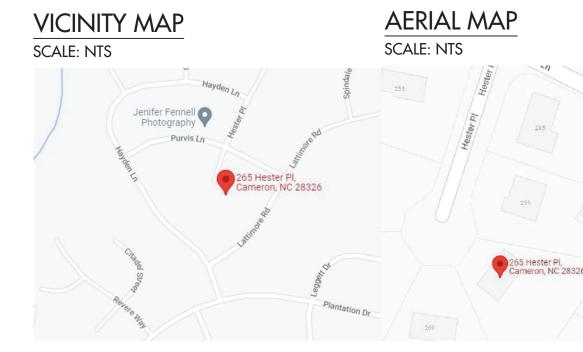
Building Codes: 2017 NEC, 2018 IBC, 2018 IFC, 2018 IRC and AHJ Amendments

\sim KING, CHRISTOPHER PV SYSTEM 265 HESTER PL. CAMERON, NC, 28326 APN: JURISDICTION: HARNETT COUNTY (NC) GENERAL INFORMATION 10.400 kW-DC-STC SYSTEM SIZE: 10.000 kW-AC ROOF PITCHED: 34 DEGREES **INVERTER:** (1) SOLAREDGE SE10000H-US W/ P340 OPTIMIZERS MODULES: (26) Q PEAK DUO BLK ML G10+ 400W

STRINGS: (1) x 15 (1) x 11 MODULE SERIES STRINGS ELECTRICAL SERVICE RATING: 200A PV SYSTEM OVERCURRENT RATING: 60A PV SYSTEM DISCONNECT SWITCH: EATON DG222NRB (60A / 2P) ROOF TYPE: COMP SHINGLE **ROOF FRAMING:** MANUFACTURED/ENGINEERED TRUSS RACKING: **K2 SYSTEMS** ATTACHMENT METHOD: MIN. 5/16" x 3 1/2 LAG SCREWS EA. STANDOFF

TABLE OF CONTENTS11/23/2022

REQUIRED INFORMATION	SHEET NAME	SHEET NUMBER
SITE INFORMATION	COVER PAGE	PV 1
MODULE AND EQUIPMENT LAYOUT	SITE PLAN	PV 2
LOCATION & QUANTITY OF PACKING & STANDOFFS	PV LAYOUT	PV 3
RACKING LOAD & UPLIFT CALCULATIONS	PV LAYOUT	PV 3
ROOF ATTACHMENT DETAILS	DETAILS	PV 4
ELECTRICAL 1 LINE DIAGRAM	ONE LINE	PV 5
ELECTRICAL 3 LINE DIAGRAM	THREE LINE	PV 6
OCP & WIRE SIZING CALCULATIONS	1 & 3 LINE	PV 5 & 6
ARRAY & INVERTER ELECTRICAL SPECIFICATIONS	1 & 3 LINE	PV 5 & 6
EQUIPMENT SPECIFICATIONS	1 & 3 LINE	PV 5 & 6
LABEL NOTES	LABELS	PV 7
PV EQUIPMENT LABELING DETAIL	LABELS	PV 7
DIRECTORY LABEL	PLACARD	PV 8
JOB SAFETY PLAN	SAFETY PLAN	PV 9
PV EQUIPMENT SPECIFICATIONS	EQUIPMENT SPEC.	PV 10 - 16
DATA SHEETS & ADDITIONAL INFORMATION	SUPPLEMENTAL MATERIAL	



NOTES

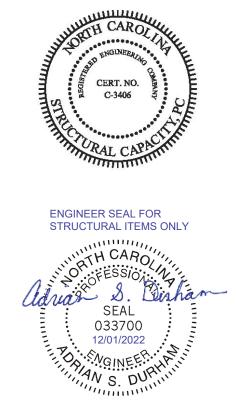
EQUIPMENT LOCATION **GENERAL NOTES** 1. ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26. 2. WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR STANDARDS. EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC690.31(A),(C) AND STANDARDS. NEC TABLES 310.15(B)(2)(A) AND 310.15(B)(3)(C). 3. JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34. 4. ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS MIGHT VARY. NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT 5. ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES 6. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE. WIRING & CONDUIT NOTES OTHERWISE NOTED. ALL CONDUITS AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING. 2. CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7. 3. DC WIRING LIMITED TO MODULE FOOTPRINT. MICRO INVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS. 4. AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK, PHASE B OR L-2 RED, OR OTHER CONVENTION IF THREE PHASE, PHASE C OR L3-BLUE, YELLOW, ORANGE, OR OTHER CONVENTION NEUTRAL- WHITE OR

GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH THE HIGHER

VOLTAGE TO BE MARKED ORANGE NEC 110.15.

SOLAR POWER 525 W BASELINE RD., MESA AZ, 85210 CONTRACTOR LIC# U.34445

KING, CHRISTOPHER RESIDENCE 265 HESTER PL , CAMERON, NC, 28326 LAT:35.267683, LON:-79.032789 TSP129181



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

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

3. DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT OF THE PV SYSTEM AND THE ACTUAL SITE CONDITION MIGHT VARY.

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

5. ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE

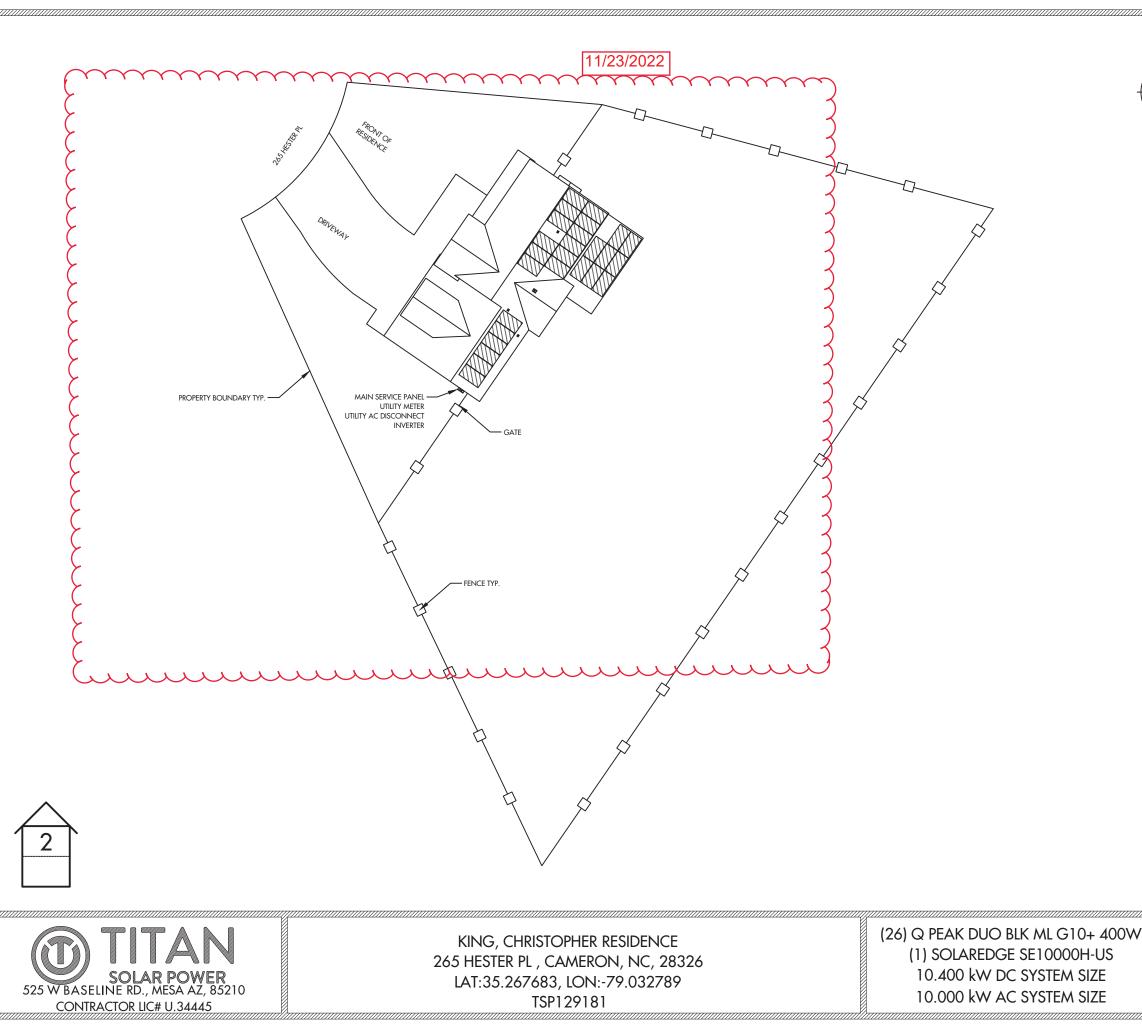
GROUNDING IN MAIN SERVICE PANEL/SERVICE COMPONENT.

6. ALL CONDUCTORS SHALL BE 600V, 75° C STANDARD COPPER UNLESS OTHERWISE NOTED.

7. WHEN REQUIRED, A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.

 THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND/OR THE UTILITY.
 ROOF ACCESS POINT SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREES, WIRES OR SIGNS.
 PV ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING.

	6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ø	
DATE: 6/24/2022				COVER PAGE
REV:A				D\/ 1
DRAWN BY: JS				PV I
		SEAL:	0	







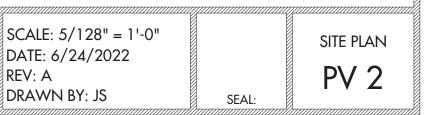
PROJECT NOTES

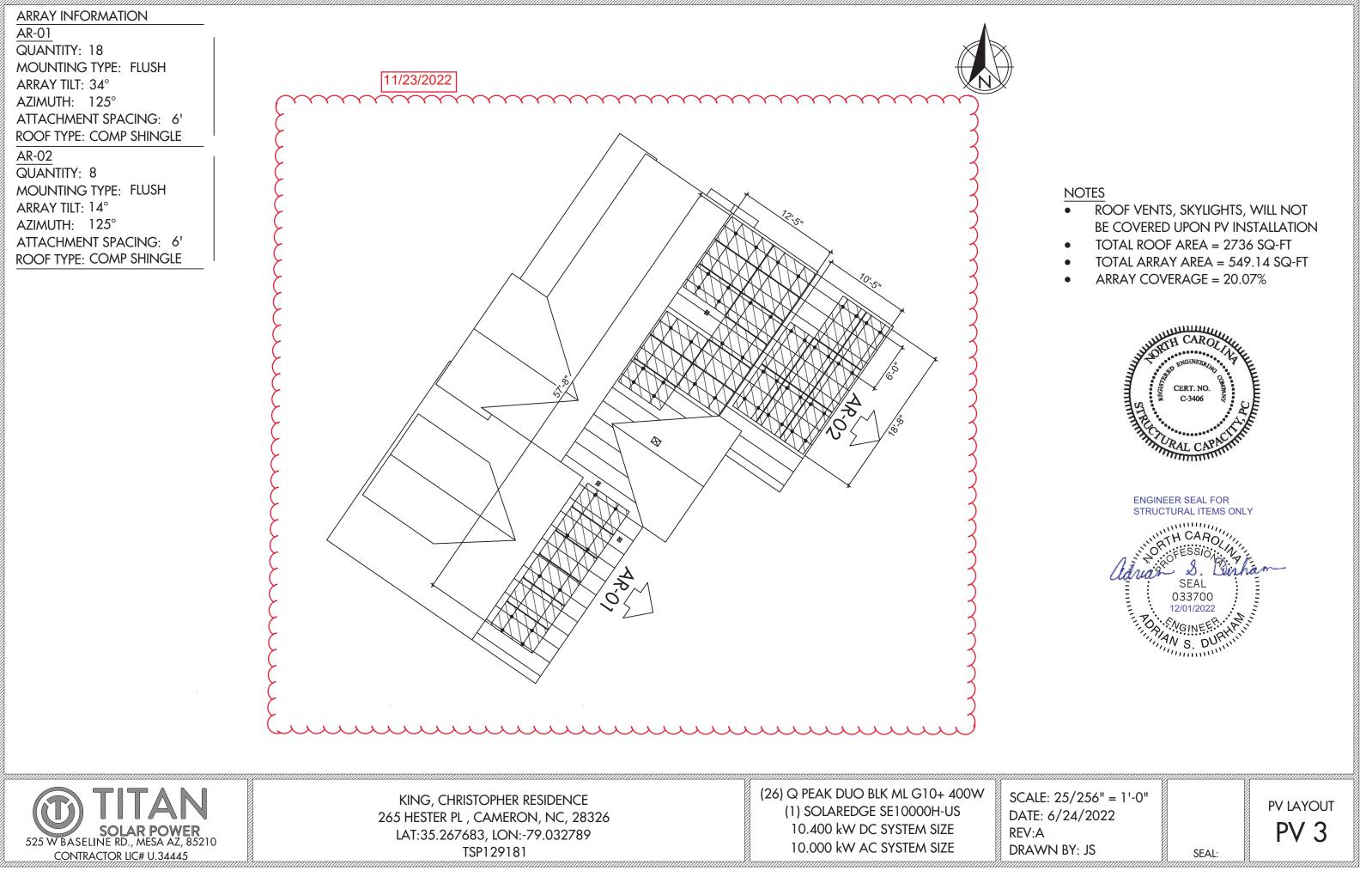
- 1. UTILITY SHALL HAVE 24HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC COMPONENTS LOCATED AT SES EQUIPMENT
- 2. NO LOCKED GATES, DOGS, ETC SHALL IMPEDE ACCESS TO SES EQUIPMENT
- 3. WORKSPACE IN FRONT OF AC ELECTRICAL SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH CENTRAL ELECTRIC MEMBERSHIP CORPORATION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



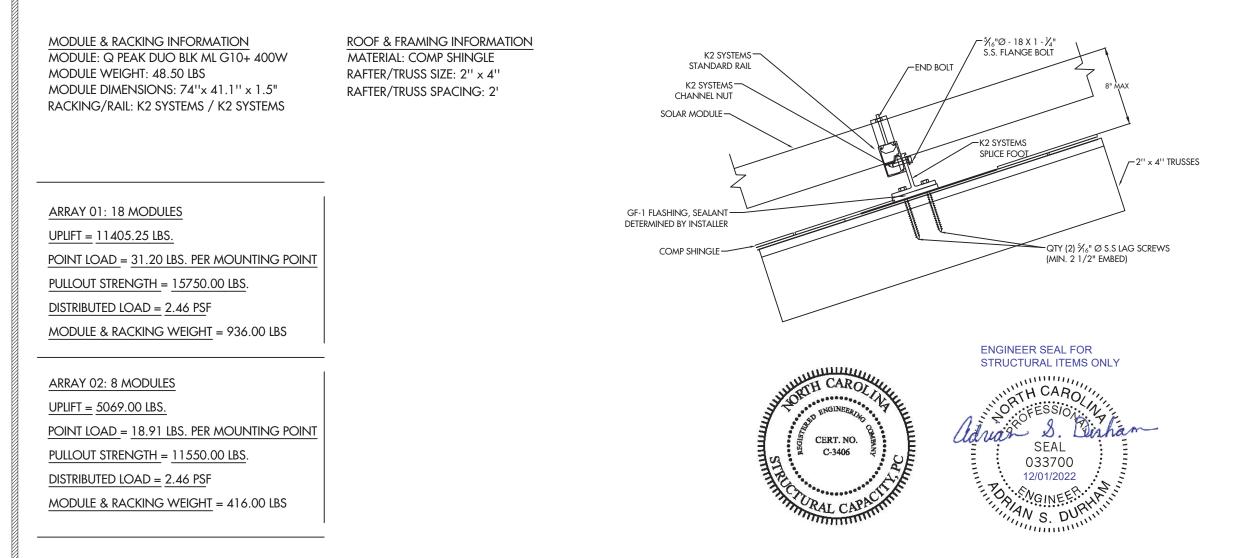








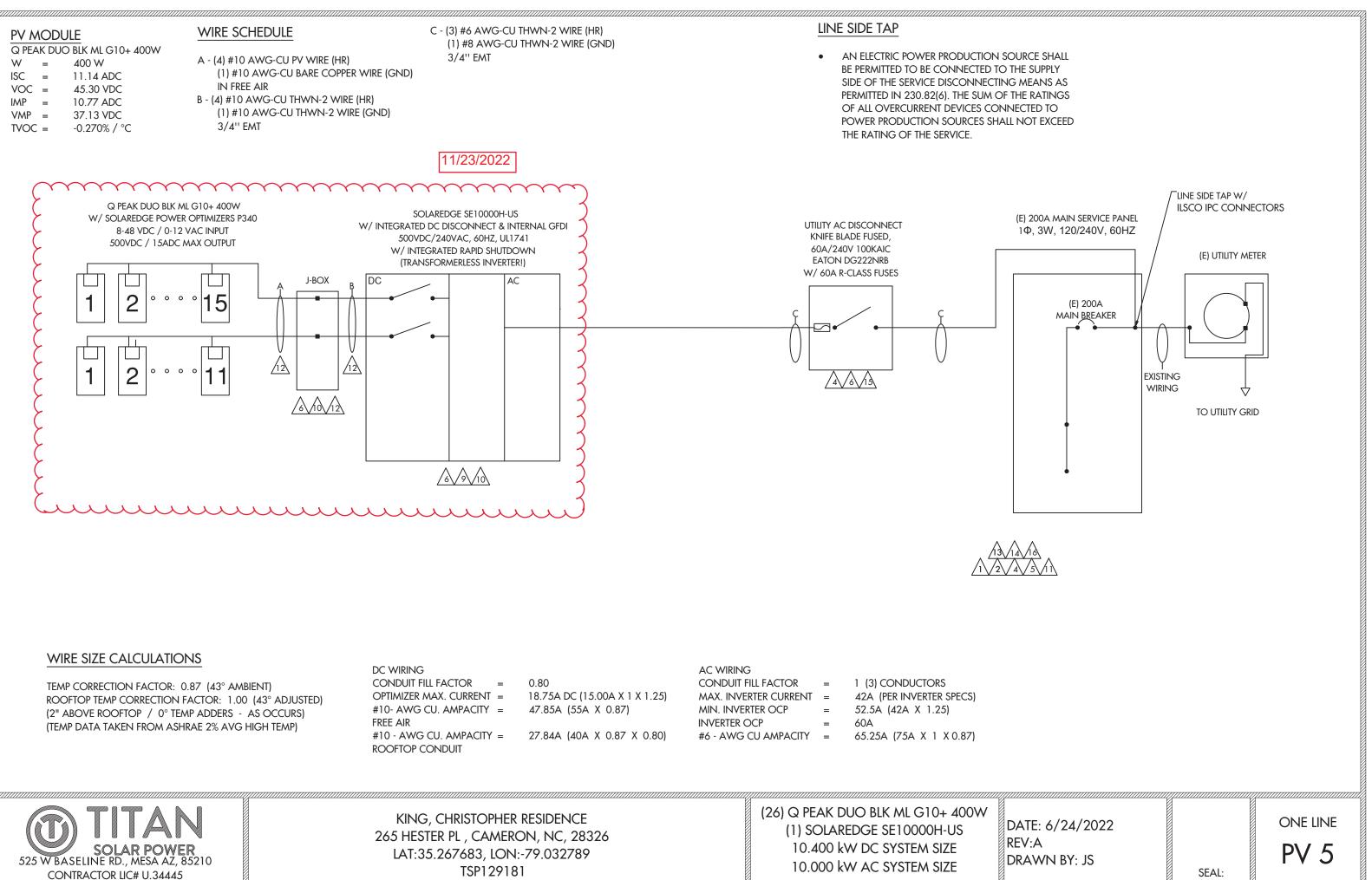




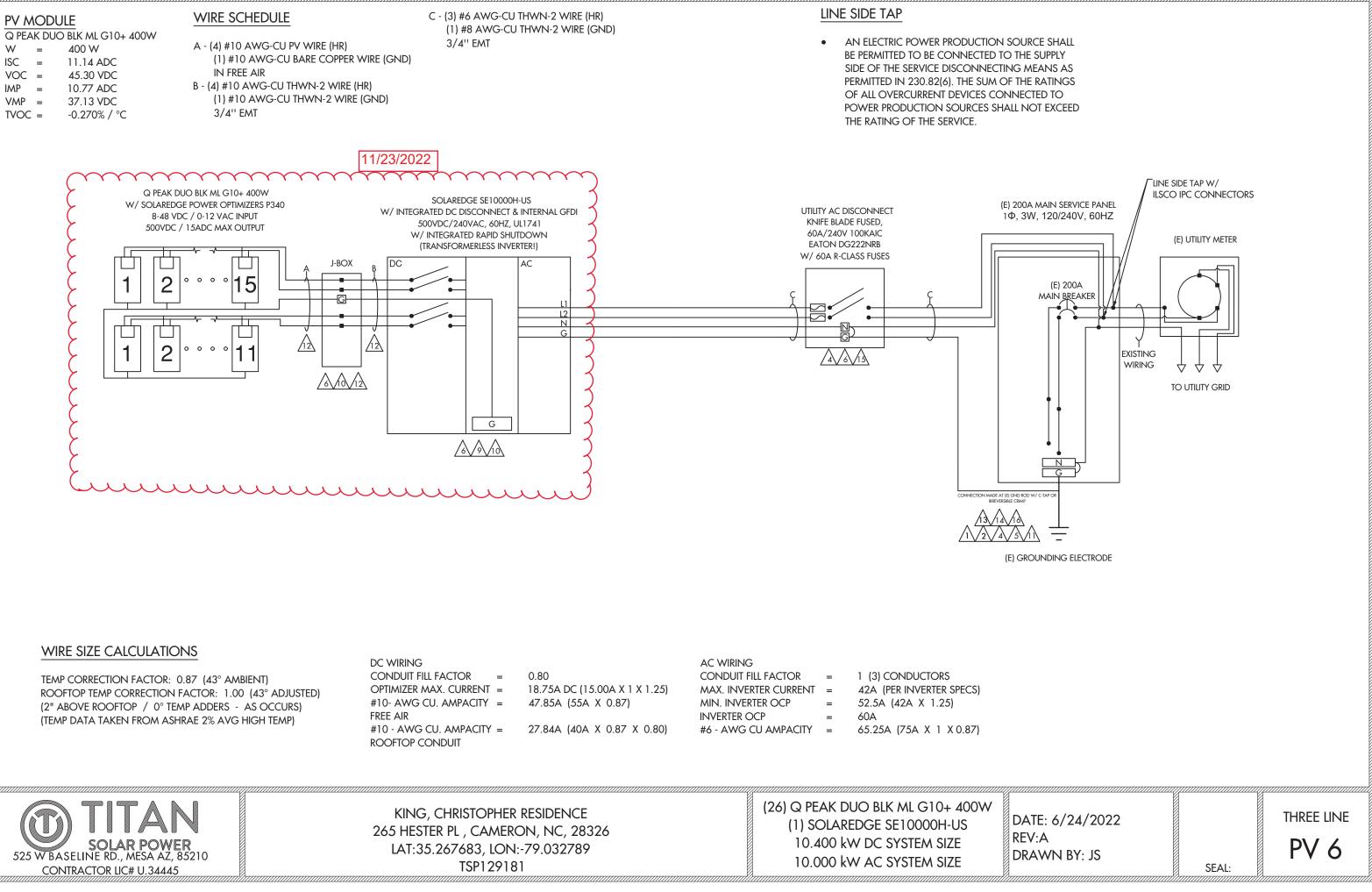


KING, CHRISTOPHER RESIDENCE 265 HESTER PL , CAMERON, NC, 28326 LAT:35.267683, LON:-79.032789 TSP129181 (26) Q PEAK DUO BLK ML G10+ 400W
(1) SOLAREDGE SE10000H-US
10.400 kW DC SYSTEM SIZE
10.000 kW AC SYSTEM SIZE

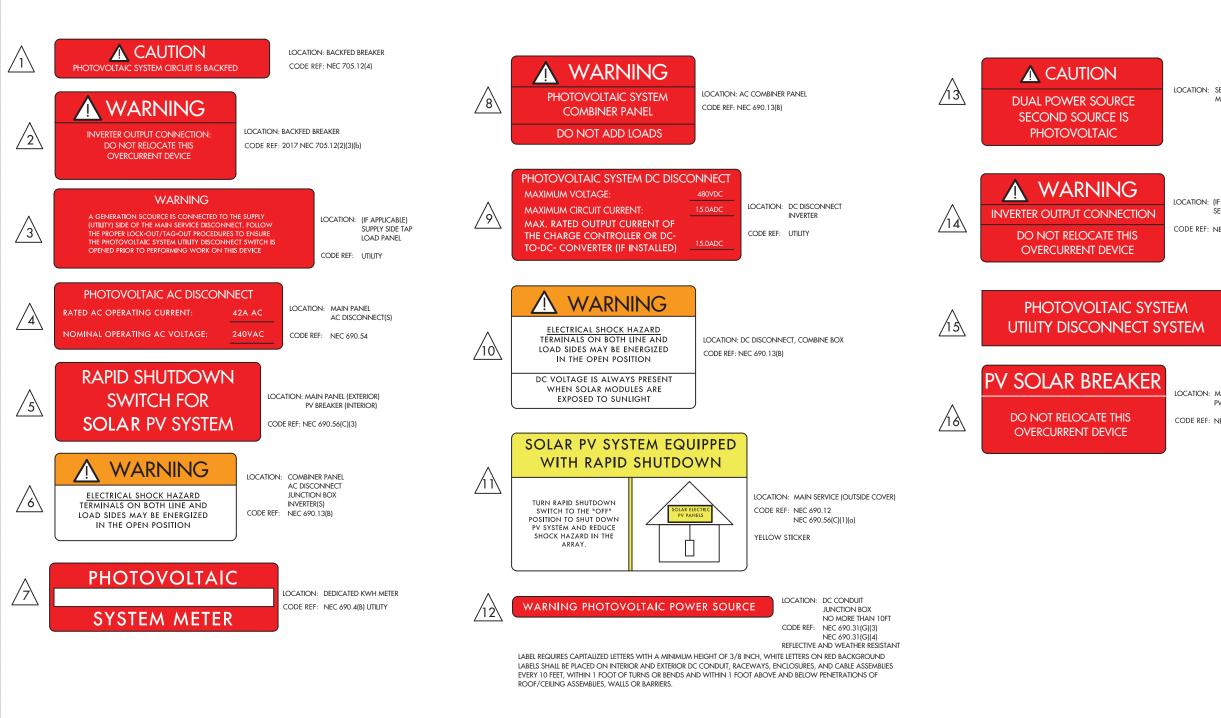
DATE: 6/24/2022		DETAILS
REV:A		PV /
DRAWN BY: JS		PV 4
	SEAL:	













KING, CHRISTOPHER RESIDENCE 265 HESTER PL , CAMERON, NC, 28326 LAT:35.267683, LON:-79.032789 TSP129181

(26) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE10000H-US 10.400 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE

LOCATION: SERVICE METER MAIN PANEL

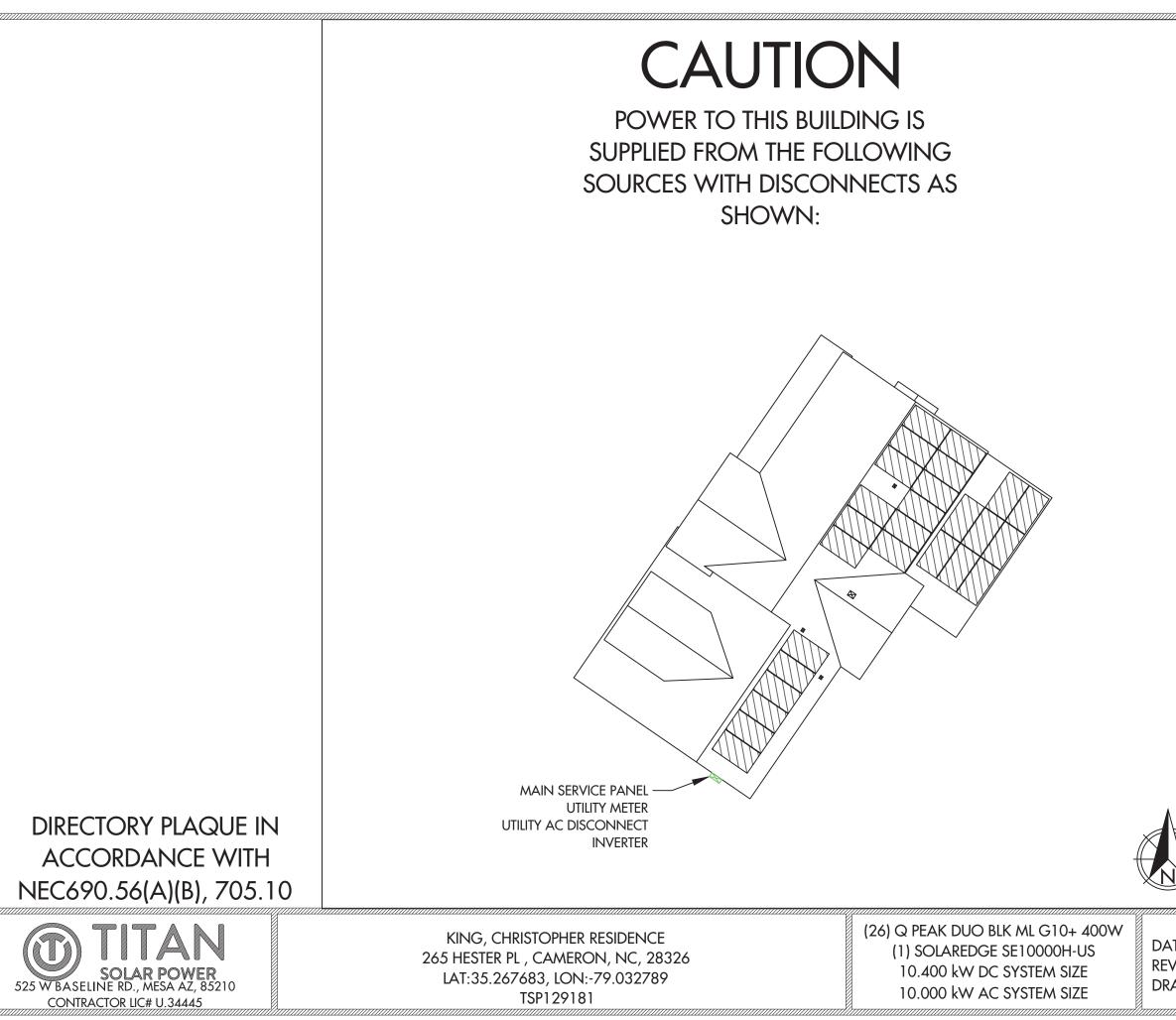
LOCATION: (IF APPLICABLE) SERVICE PANEL

CODE REF: NEC 705.12(7)

LOCATION: AC DISCONNECT CODE REF: UTILITY

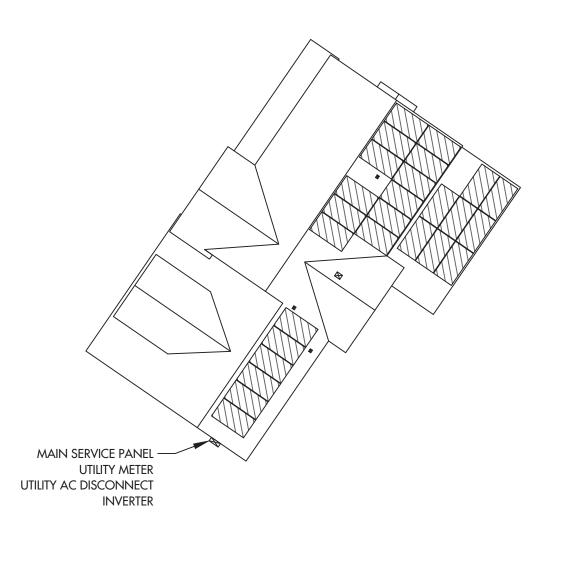
LOCATION: MAIN PANEL:(EXTERIOR) PV BREAKER: (INTERIOR) CODE REF: NEC 705.12(B)(2)(3)(B)

DATE: 6/24/2022 LABELS REV: A **PV** 7 DRAWN BY: JS SEAL:



DATE: 6/2 EV: A DRAWN E	SEAL:	placard PV 8

JOB SAFETY PLAN



•	HOME INSTALLER SHALL
	OF NEAREST UR
	PRINT NAM





KING, CHRISTOPHER RESIDENCE 265 HESTER PL , CAMERON, NC, 28326 LAT:35.267683, LON:-79.032789 TSP129181

(26) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE10000H-US 10.400 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE

DA Re Dr

LOCATION OF NEAREST URGENT CARE FACILITY

L DRAW IN DESIGNATED SAFETY AREA AROUND

L UPDATE NAME, ADDRESS, AND PHONE NUMBER RGENT CARE FACILITY RELATIVE TO THE JOB SITE NG WORK.

ME	INITIAL	YES	NO

ATE: 6/24/2022
EV: A
rawn by: JS

SAFETY PLAN

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

/ Small, lightweight, and easy to install both

Optional: Faster installations with built-in

consumption metering (1% accuracy) and

production revenue grade metering (0.5% accuracy,

solaredge

outdoors or indoors

ANSI C12.20)

/ Built-in module-level monitoring

- / 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

/ Single Phase Inverter with HD-Wave Technology

for North America

INVERTERS

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 @ 208∨	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	~	~	~	4	~	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	-	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 ⁽²⁾	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-	27	Add
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			99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption				< 2.5				W

/ 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	
Grid Connection Standards	
Emissions	
INSTALLATION SPECIFICAT	10
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	
(3) Inverter with Revenue Grade Meter P/N: SE should be ordered separately: SEACT0750-	

> 0 or SEACT0750-400NA-20. 20 units per box Il power up to at least 50°C / 122°F; for po

How to Enable Consumption Monitoring

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





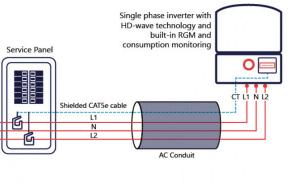
KING, CHRISTOPHER RESIDENCE 265 HESTER PL , CAMERON, NC, 28326 LAT:35.267683, LON:-79.032789 TSP129181

(26) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE10000H-US 10.400 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE

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

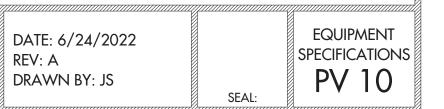
00H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
		RS485, Ethernet,	ZigBee (optional), C	ellular (optional)			
			Optional ⁽³⁾				
	With the SetA	op mobile application	n using Built-in Wi-Fi	Access Point for Lo	cal Connection		
		Automatic Rapid	Shutdown upon AC	Grid Disconnect			
	UL1741, U	L1741 SA, UL1699B, C	SA C22.2, Canadian	AFCI according to	T.I.L. M-07		
		IEEE1	547, Rule 21, Rule 14	(HI)			
			FCC Part 15 Class B				
	1"	Maximum / 14-6 AV	/G		1'' Maximum	/14-4 AWG	
1" Maximum / 1-2 strings / 14-6 AWG 1" Maximum / 1-3 strings / 14-6 AWG							
	17.7 x 14.6 x 6.8 / 450 x 370 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						dBA	
			Natural Convection				
	-40 to +140 / -40 to +60 ⁽⁴⁾						
		NEMA 4>	(Inverter with Safet	y Switch)			

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



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RoHS



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.

SOLAR POWER

525 W BASELINE RD., MESA AZ, 85210

CONTRACTOR LIC# U.34445

(3) 3 -PH Inverters

intertek

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

SE9KUS / SE10KUS / SE14.4KUS/ SE16.7kUS / SE17.3kUS / SE20KUS/ SE24KUS / SE30KUS / SE33.3KUS / SE40KUS / SE43.2KUS / SE50KUS / SE66.6KUS / SE80KUS / SE85KUS / SE100KUS / 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. Only the Client is authorized to copy or distribute this Verification. Any use of the NRTL name or one of its marks for the asile 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

(26) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE10000H-US 10.400 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE



KING, CHRISTOPHER RESIDENCE 265 HESTER PL , CAMERON, NC, 28326 LAT:35.267683, LON:-79.032789 TSP129181

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

	Engineer / Reviewer	Description
۲T	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"

ATE: 6/24/2022
V: A
RAWN BY: JS



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@	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	n	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	LAREDGE IN	VERTER OR	SOLAREDGI	E INVERTER O	OFF)
Safety Output Voltage per Power Optimizer				1±	0.1				Vdc
STANDARD COMPLIAN	CE								
EMC			FCC Pa	rt15 Class 3, IEC6	000-6-2, IEC6100	0-6-3			
Safety		IEC62109-1 (class safety), U_1741							
Material		UL94 V-0 , UV Resistant							
RoHS				Ye	s				
INSTALLATION SPECIFIC	CATIONS								
Maximum Allowed System Voltage				100	ю				Vdc
Compatible inverters		All SolarEdge Single Phase and Three Phase inverters							
Dimensions (W x L x H)	129	x 153 x 27.5 / 5.1 x	: 6 x 1.1	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 /5.1 x 6 x 1.16	129 x 159 x 49.5	5 / 5.1 x 6.3 x 1.9	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			MC	4(3)			Single or dua MC4 ⁽³⁾⁽⁴⁾	MC4 ^(B)	
Input Wire Length				0.16 /	0.52				m/ft
Output Wire Type / Connector		Double Insulated / 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 / NEMA6P								
Relative Hurnidity				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 max input 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 ambient Lemperature above +85°C / +183°F power de-ating is applied. Refer to Power Optimizers Temperature De-Rating Tachnical Note for more details.

PV System De a SolarEdge II	sign Using nverter ⁽⁶⁾⁽⁷⁾	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		10	18	
(Power Optimizers)	P405, P485, P505	6		8	14	
Maximum String Length (Power	Optimizers)	25		25	50(8)	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400- US)	5250	6000 ⁽⁹⁾	1275C ⁽¹⁰⁾	W
Parallel Strings of Different Leng	ths or Orientations		Y	/es		

(6) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf (7) It is not allowed to mix 8/25/P485/P505 with P320/F320/P320/P420/P420/P420/P420/Pa20/in one string (8) A string with more than 30 optimizers does not meet NEC pagib Autdown requirements safety voltage will be above the 30V requirement (9) For 2004 yild. It is allowed to install up to 7,200W per string when the maximum power difference between each string is 1,000W (0) For 21/r46V yrdir. It is allowed to install up to 7,200W per string when the maximum power difference between each string is 2,000W

© SolarEdge Technologies Ltd. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trade All other trademarks mentioned herein are trademarks of their respective owners. Date: 07/2020/V02/ENG NAM. Subject to change without notice arks of SolarEdge Tech

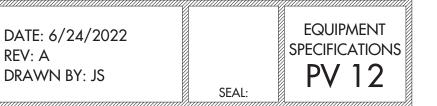


KING, CHRISTOPHER RESIDENCE 265 HESTER PL , CAMERON, NC, 28326 LAT:35.267683, LON:-79.032789 TSP129181

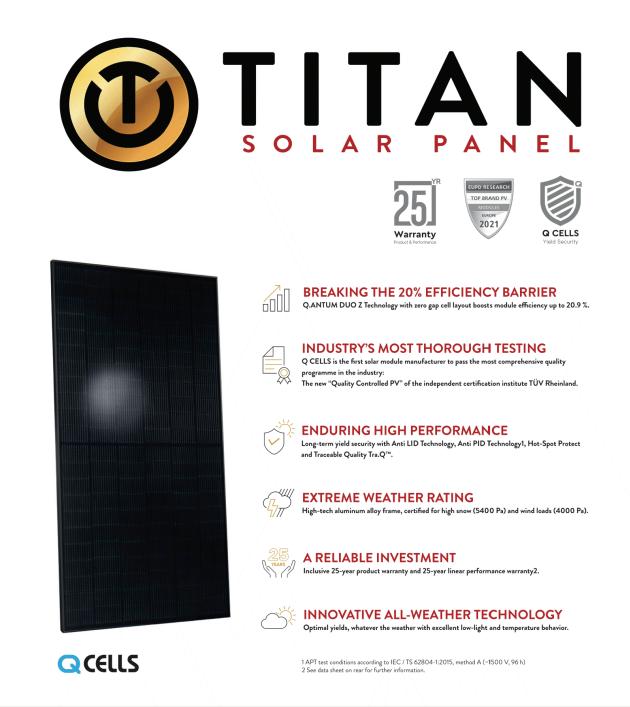
(26) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE10000H-US 10.400 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE







MECHANICAL SPECIFICATION



Q PEAK DUO BLK ML-G10+

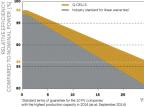
DRMAT 74.0 in × 41.1 in × 1.26 in (including frame) (1879 mm × 1045 mm × 32 mm)	
YEIGHT 48.5 lbs (22.0 kg)	
RONT COVER 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology	
ACK COVER Composite film	
AME Black anodized aluminum	
LL 6 × 22 monocrystalline Q.ANTUM solar half cells	
NCTION 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 dia	odes
ABLE 4 mm ² Solar cable; (+) ≥ 49.2 in (1250 mm), (-) ≥ 49.2 in (12	250 mm)
DNNECTOR Stäubli MC4; IP68	

ELECTRICAL CHARACTERISTICS 405 395 400 395 400 405 390 11.07 11.10 11.14 11.17 45.23 45.27 45.30 45.34 10.71 10.77 10.83 0.65 36.62 36.88 3713 37.39 ≥20.1 ≥20.6 ≥19.9 ≥20.4 292.6 296.3 300.1 303.8 8.92 8.95 8.97 9.00 42.65 42.69 42.72 42.76 8.41 8.46 8.51 8.57 34.81 35.03 35.25 35.46 2800 W/m², NMOT, spectrum AM 1.5 PERFORMANCE AT LOW IRRADIANCE

MIN	IIMUM PERFORMANCE AT STANDARD	TEST CONDITIONS	, STC	1 (POWER TOLERANCE +	5 W / - 0 W
	POWER AT MPP	P _{MPP}	[W]	385	3
X	SHORT CIRCUIT CURRENT	I _{SC}	[A]	11.04	11
MINIMU	OPEN CIRCUIT VOLTAGE	V _{oc}	[V]	45.19	45
NIV.	CURRENT AT MPP	I _{MPP}	[A]	10.59	10
~	VOLTAGE AT MPP	V _{MPP}	[V]	36.36	36
	EFFICIENCY	η	[%]	≥19.6	≥1
MIN	IIMUM PERFORMANCE AT NORMAL O	PERATING CONDIT	IONS, I	NMOT ²	
2	POWER AT MPP	P _{MPP}	[W]	288.8	29
MUN	SHORT CIRCUIT CURRENT	Isc	[A]	8.90	8
MINIM	OPEN CIRCUIT VOLTAGE	V _{oc}	[V]	42.62	42
	CURRENT AT MPP	I _{MPP}	[A]	8.35	8
	VOLTAGE AT MPP	V _{MPP}	[V]	34.59	34
¹ Me	asurement tolerances Pure ±3%; Isc; Voc ±5	% at STC: 1000 W/m ²	25±2°0	C. AM 1.5 according to IEC 6	0904-3 • 280

Q CELLS PERFORMANCE WARRANTY

POWER CLASS





country.

TEMPERATURE COEFFICIENTS

25 years. All data within measu

TEMPERATURE COEFFICIENT OF I	sc	α [%/K]	+0.04 1	EMPERATURE COEFFICIENT OF Voc	β	[%/K]	-0.27
TEMPERATURE COEFFICIENT OF P _{MPP} γ [%/K] -0.34 NG			IOMINAL MODULE OPERATING TEMPERATUR	e nmot	[°F] 109±5.4 (43±3°		
		PROPE	RTIES FO	R SYSTEM DESIGN			
Maximum System Voltage V SYS	[V]	1000 (IEC))/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 ³ [lbs/ft ²] 75 (3600 Pa)/55 (2660 Pa) Max. Test Load, Push / Pull ³ [lbs/ft ²] 113 (5400 Pa)/84 (4000 Pa)		55 (2660 Pa)	Permitted Module Temperature		−40°F up to +185°F (−40°C up to +85°C		
		on Continuous Duty					
³ 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), QCPV Certification ongoing.

> E packaging 1940 mm

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: +1949 748 5996 EMAIL: sales@q-cells.co





395-400

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THE IDEAL SOLUTION FOR:

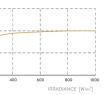
Rooftop arrays on residential buildings

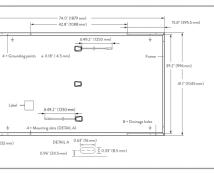
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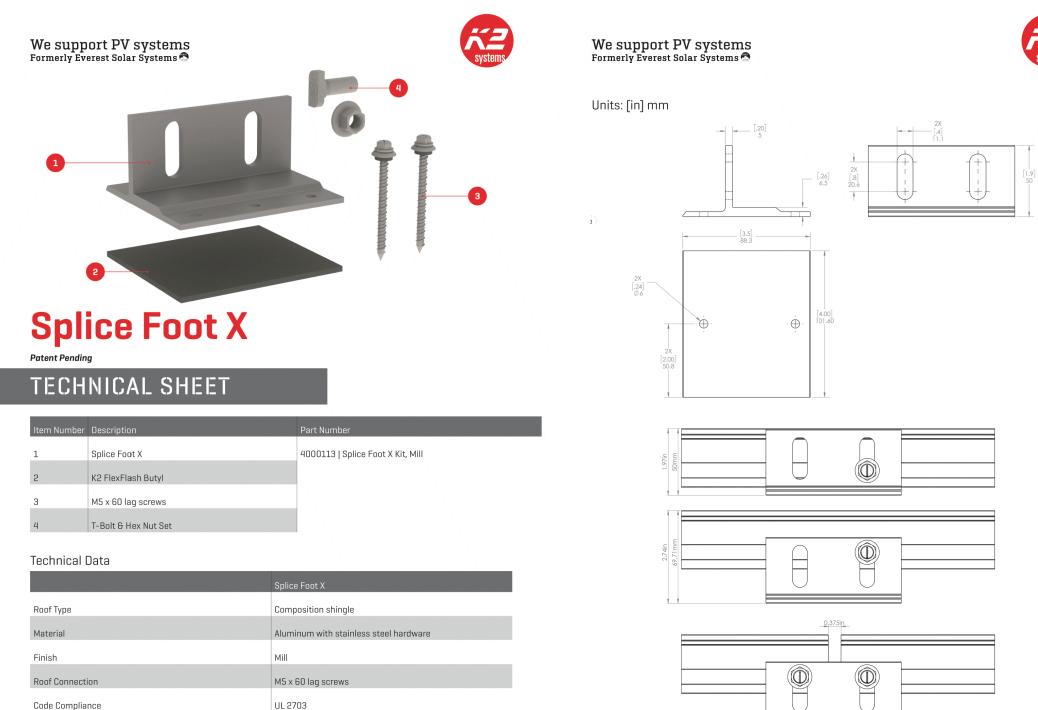


n ANSI /UL 61730 TYPE 2		AKD
Artment for further information on approved installation and use of S25 W Baseline Rd., Mesa, AZ, 85210 TEL: 855.SAY.SOLAR EMAIL: info@litansolarpower.com DATE: 6/24/2022 REV: A DRAWN BY: JS EMAIL: info@litansolarpower.com DATE: 6/24/2022 REV: A DRAWN BY: JS	Class II	Ğ.
Artment for further information on approved installation and use of S25 W Baseline Rd., Mesa, AZ, 85210 TEL: 855.SAY.SOLAR EMAIL: info@litansolarpower.com DATE: 6/24/2022 REV: A DRAWN BY: JS EMAIL: info@litansolarpower.com DATE: 6/24/2022 REV: A DRAWN BY: JS	n ANSI / UL 61730 TYPE 2	IT I I I I I I I I I I I I I I I I I I
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REV: A SPECIFICATIONS DRAWN BY: JS PV 13		
	525 W Baseline Rd., Mesa, AZ, 85210 TEL: 855.SAY.SOLAR EMAIL: info@titansolarpower.com	0

Typical module performance under low irradiance conditi comparison to STC conditions (25 °C, 1000 W/m²)









Compatibility

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CrossRail 44-X, 48-X, 48-XL, 80

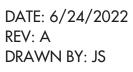
k2-systems.com

(26) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE10000H-US 10.400 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE



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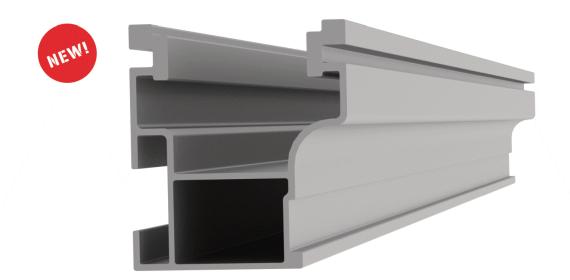
k2-systems.com





Mounting systems for solar technology





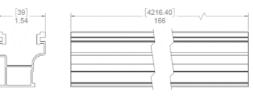
NEW PRODUCT

CrossRail 44-X

- Optimized rail profile
- One rail for all markets
- Built-in wire management
- Maintains same structural integrity as 48-X
- Tested up to 200 mph winds
- Tested up to 100 PSF snow loads



Part Number	Description
4000019	CrossRail 44-X 166'', Mill
4000020	CrossRail 44-X 166'', Dark
4000021	CrossRail 44-X 180", Mill
4000022	CrossRail 44-X 180", Dark
4000051	RailConn Set, CR 44-X, Mill
4000052	RailConn Set, CR 44-X, Dark
4000067	End Cap, Black, CR 44-X



www.everest-solarsystems.com

CrossRail 44-X Product Sheet US01 | 0520 · Subject to change · Product illustrations are exemplary and may differ from the original.



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(26) Q PEAK DUO BLK ML G10+ 400W (1) SOLAREDGE SE10000H-US 10.400 kW DC SYSTEM SIZE 10.000 kW AC SYSTEM SIZE

DA Re Dr

ATE: 6/24/2022
EV: A
rawn by: JS



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
SE5000H-US	24 @ 208V	30	50
	21 @ 240V		
SE6000H-US	24 @ 208V	30 @ 208V	50
	25 @ 240V	35 @ 240V	
SE7600H-US	32	40	50
SE10000H-US	42	60	80
SE11400H-US	48.5 @ 208V	70 @ 208V	80
	47.5 @ 240V	60 @ 240V	

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



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