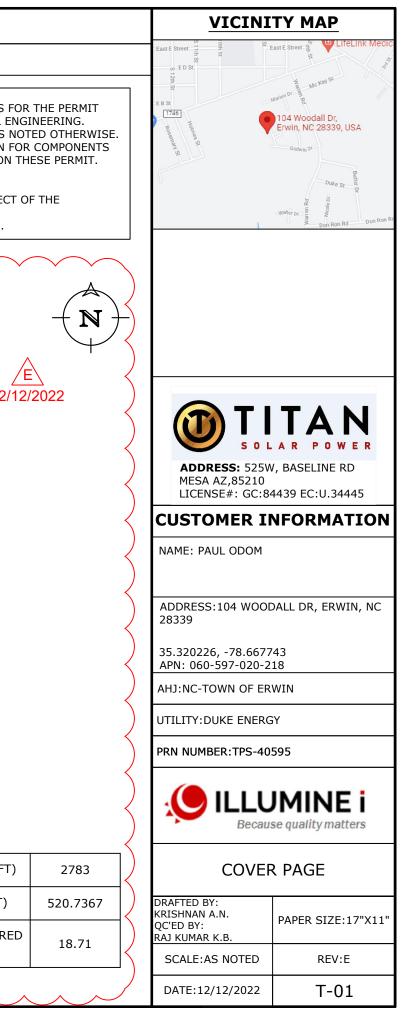
SH	IEET CATALOG	PAUL ODOM - 1	13.430kW DC, 10.0	00kW AC
INDEX NO.	DESCRIPTION		SITE PLAN LAYOUT	
T-01	COVER PAGE			
S-01	MOUNTING DETAIL	NOTE: NO GATE AND FENCE	ENGINEERING SCOPE OF WORK	
S-02	STRUCTURAL DETAIL	NOTE: PV SYSTEM TO BE INSTALLED ON DETACHED NON-HABITABLE STRUCTURE.	1. ILLUMINE INDUSTRIES INC. HAS ON DRAWINGS. NO ACTUAL ENGINEERING	
E-01	SINGLE LINE DIAGRAM		APPROVAL HAS BEEN CONDUCTED BY 2. WHEN A PROFESSIONAL ENGINEER	
E-02	THREE LINE DIAGRAM	APPLICABLE CODES	OF THEIR RESPECTIVE DISCIPLINE (ST	
E-03	STRING WIRING DIAGRAM & ELECTRICAL CALCULATION	• NORTH CAROLINA ELECTRIC CODE:NCEC 2017     • NORTH CAROLINA FIRE CODE:NCFC 2018     • NORTH CAROLINA BUILDING CODE:NCBC 2018	DRAWINGS, HE/SHE: a. TAKES FULL DIRECT CONTROL OF T b. IS GIVEN ACCESS TO PERSONALLY	
PL-01	WARNING PLACARDS	NORTH CAROLINA RESIDENTIAL CODE:	ENGINEERED DESIGN. c. HAS FULLY ACCEPTED RESPONSIBIL	
PL-02	DIRECTORY PLACARD	NCRC 2018	C. HAS FULLY ACCEPTED RESPONSIBIL	ITT FOR THE ENGINEERED DESIGN.
PL-03	SAFETY PLANS-1			$\sim \sim \sim \sim$
PL-04	SAFETY PLANS-2	>		
SS	SPEC SHEET(S)	(N) MAIN SERVICE PANEL WITH		
SC	COPE OF WORK	(E)UTILITY METER(EXTERIOR) (N) SUB PANEL-2(EXTERIOR)		-
İNVERTER: (1)SOLAREDGE SE10000H-US(2 OPTIMIZER: (34)SOLAREDGI	E P401 POWER OPTIMIZER	(N) PV UTILITY AC DISCONNECT SWITCH(EXTERIOR) 60'-2"	157' 7'-4" DRIVE W	AY BO THYOOOM
1.MODULES AR CONFORM TO TH 2.INVERTERS A CONFORM TO TH 3.DRAWINGS A GENERAL ARRAI THE ACTUAL SIT 4.WORKING CL ELECTRICAL EQ ACCORDANCE W 5.ALL GROUND SERVICE GROU SERVICE GROU SERVICE EQUIP 6.ALL CONDUC STANDARD COP 7.WHEN REQUIF FOR INSPECTIC REGULATIONS. 8.THE SYSTEM W	RE DIAGRAMMATIC, INDICATING NGEMENT OF THE PV SYSTEM AND TE CONDITION MIGHT VARY. EARANCES AROUND THE NEW PV UIPMENT WILL BE MAINTAINED IN VITH NEC 110.26. WIRING CONNECTED TO THE MAIN NDING IN MAIN SERVICE PANEL/	GARAGE PHOTOVOLTAIC ARRAY ON THE NON-HABITABLE DETACHED STRUCTURE 79'-11"	10'-2" 10'-2" 156'-5" 1'-6" FIRE PHOTOVOLT 3' FIRE SETBACK (N) PV INVERTER(EXTERIOR (N) SUB PANEL-1(EXTERIOR) APPROX.45' DC TRENCHED CONDUI	AIC ARRAY ON THE ROOF
LOCAL JURISDIO 9.ROOF ACCES	CTION AND/OR THE UTILITY. S POINT SHALL BE LOCATED IN O NOT REQUIRE THE PLACEMENT		(N) DC DISCONNECT(EXTERIOR)	TOTAL AREA OF ROOF (SQ.FT)
OF GROUND LA WINDOWS OR I	DDERS OVER OPENINGS SUCH AS DOORS, AND LOCATED AT STRONG			TOTAL ARRAY AREA (SQ.FT)
ACCESS POIN OVERHEAD OE WIRES OR SIGN 10.PV ARRA	COMBINER/JUNCTION BOX	SCALE:1"=30'-0"	- PROPERTY LINE	TOTAL AREA OF ARRAY COVEREI IN THE ROOF (%)



### **INSTALLATION NOTES**

1.STRUCTURAL ROOF MEMBER LOCATIONS ARE ESTIMATED AND SHOULD BE LOCATED AND VERIFIED BY THE CONTRACTOR WHEN LAG BOLT PENETRATION OR MECHANICAL ATTACHMENT TO THE STRUCTURE IS REQUIRED.

2.ROOFTOP PENETRATIONS FOR SOLAR RACKING WILL BE COMPLETED AND SEALED WITH APPROVED SEALANT PER CODE BY A LICENSED CONTRACTOR.

3.LAGS MUST HAVE A MINIMUM 2.5" THREAD EMBEDMENT INTO THE STRUCTURAL MEMBER.

4.ALL PV RACKING ATTACHMENTS SHALL BE STAGGERED BY ROW BETWEEN THE ROOF FRAMING MEMBERS AS NECESSARY.

5.ROOF MOUNTED STANDARD RAIL REQUIRES ONE THERMAL EXPANSION GAP FOR EVERY RUN OF RAIL GREATER THAN 40'.

6.ALL CONDUCTORS AND CONDUITS ON THE ROOF SHALL BE MINIMUM 7/8" ABOVE THE ROOF SURFACE (INCLUDING CABLES UNDERNEATH MODULES AND RACKING).

7.THE PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL OR BUILDING ROOF VENTS.

ROOF ACCESS PATHWAYS AND SETBACKS:

**1204.2.1** SOLAR PHOTOVOLTAIC SYSTEMS FOR GROUP R-3BUILDINGS.SOLAR PHOTOVOLTAIC SYSTEMS FOR GROUP R-3 BUILDINGS SHALL COMPLY WITH SECTIONS 1204.2.1.1 THROUGH 1204.2.1.3.

#### EXCEPTIONS:

1.THESE REQUIREMENTS SHALL NOT APPLY TO STRUCTURES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE.

2.THESE REQUIREMENTS SHALL NOT APPLY TO ROOFS WITH SLOPES OF 2 UNITS VERTICAL IN 12 UNITS HORIZONTAL OR LESS.

**1204.2.1.1 PATHWAYS TO RIDGE**. NOT FEWER THAN TWO 36-INCH-WIDE (914 MM) PATHWAYS ON SEPARATE ROOF PLANES,FROM LOWEST ROOF EDGE TO RIDGE, SHALL BE PROVIDED ON ALL BUILDINGS. NOT FEWER THAN ONE PATHWAY SHALL BE PROVIDED ON THE STREET OR DRIVEWAY SIDE OF THE ROOF. FOR EACH ROOF PLANE WITH A PHOTOVOLTAIC ARRAY, NOT FEWER THAN ONE 36-INCH-WIDE (914 MM) PATHWAY FROM LOWEST ROOF EDGE TO RIDGE SHALL BE PROVIDED ON THE SAME ROOF PLANE AS THE PHOTOVOLTAIC ARRAY, ON AN ADJACENT ROOF PLANE OR STRADDLING THE SAME AND ADJACENT ROOF PLANES

**1204.2.1.2 SETBACKS AT RIDGE.**FOR PHOTOVOLTAIC ARRAYS OCCUPYING 33 PERCENT OR LESS OF THE PLAN VIEW TOTAL ROOF AREA,

A SETBACK OF NOT LESS THAN 18 INCHES (457 MM)WIDE IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, A SETBACK OF NOT LESS THAN 36 INCHES (457 MM) WIDE IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.

**1204.2.2** EMERGENCY ESCAPE AND RESCUE OPENINGS. PANELS AND MODULES INSTALLED ON GROUP R-3 BUILDINGS SHALL NOT BE PLACED ON THE PORTION OF A ROOF THAT IS BELOW AN EMERGENCY ESCAPE AND RESCUE OPENING. A PATHWAY OF NOT LESS THAN 36 INCHES (914 MM) WIDE SHALL BE PROVIDED TO THE EMERGENCY ESCAPE AND RESCUE OPENING

**1204.2.1.3 ALTERNATIVE SETBACKS AT RIDGE**. WHERE AN AUTOMATIC SPRINKLER SYSTEM IS INSTALLED WITHIN THE DWELLING IN ACCORDANCE WITH SECTION 903.3.1.3, SETBACKS AT THE RIDGE SHALL CONFORM TO ONE OF THE FOLLOWING:

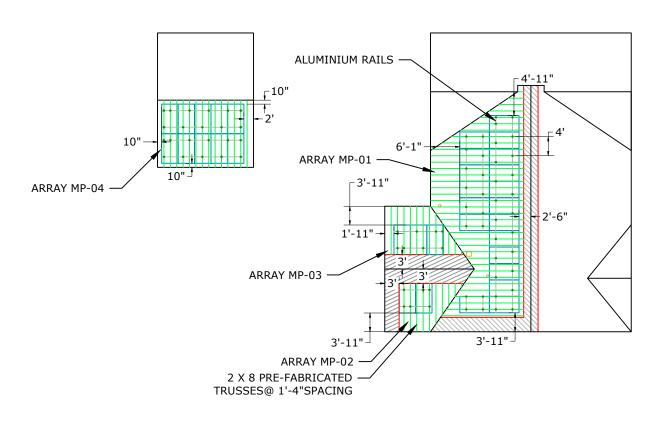
1.FOR PHOTOVOLTAIC ARRAYS OCCUPYING 66 PERCENT OR LESS OF THE PLAN VIEW TOTAL ROOF AREA, A SETBACK OF NOT LESS THAN 18 INCHES (457 MM) WIDE IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.

2.FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 66 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, A SETBACK OF NOT LESS THAN 36 INCHES (914 MM) WIDE IS REQUIRED ON BOTH SIDES OF A HORIZONTAL

RIDGE

			SIT	E INFORM	<b>IATION</b> - V	VIND SPEE	D: 146 M	PH AND SNOW LOAD	): 10 PS	SF		
SR. NO	AZIMUTH	PITCH	NO. OF MODULES	ARRAY AREA (SQ. FT.)	ROOF TYPE	ATTACHMENT	ROOF EXPOSURE	FRAME TYPE	FRAME SIZE	FRAME SPACING	MAX RAIL SPAN	OVER HANG
MP-01	258°	47°	19	412.2	COMPOSITION SHINGLE	K2 SPLICE FOOT X	ATTIC	PRE-FABRICATED TRUSSES	2 X 8	1'-4"	4'-0"	1'-6"
MP-02	168°	30°	2	43.4	COMPOSITION SHINGLE	K2 SPLICE FOOT X	ATTIC	PRE-FABRICATED TRUSSES	2 X 8	1'-4"	4'-0"	1'-6"
MP-03	348°	30°	3	65.1	COMPOSITION SHINGLE	K2 SPLICE FOOT X	ATTIC	PRE-FABRICATED TRUSSES	2 X 8	1'-4"	4'-0"	1'-6"
MP-04	168°	24°	10	217.0	COMPOSITION SHINGLE	K2 SPLICE FOOT X	ATTIC	PRE-FABRICATED TRUSSES	2 X 8	1'-4"	4'-0"	1'-6"

### NOTE: PENETRATIONS ARE STAGGERED



TOTAL AREA OF ROOF (SQ.FT)	2783
TOTAL ARRAY AREA (SQ.FT)	520.7367
TOTAL AREA OF ARRAY COVERED IN THE ROOF (%)	18.71

- SCALE:1"=20'-0"



AHJ:NC-TOWN OF ERWIN

UTILITY: DUKE ENERGY

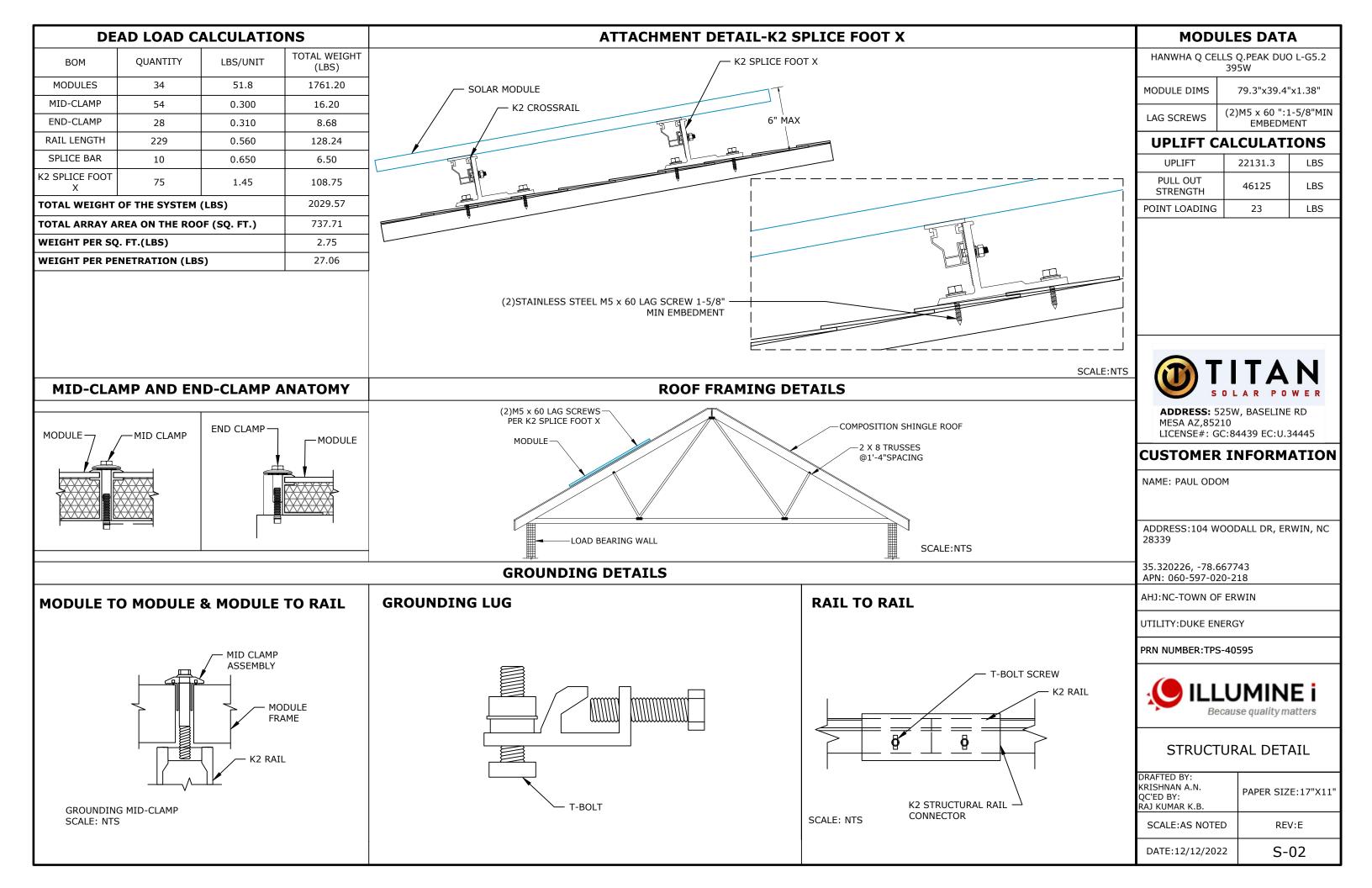
PRN NUMBER: TPS-40595

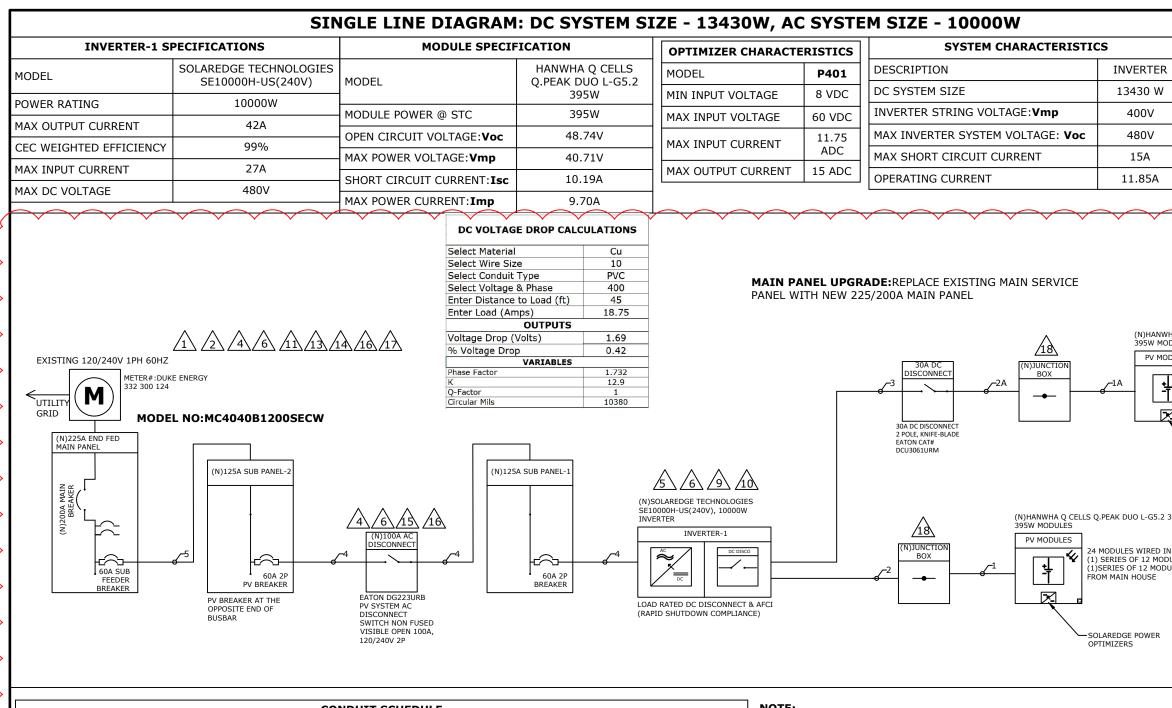


### MOUNTING DETAIL

DRAFTED BY: KRISHNAN A.N. QC'ED BY: RAJ KUMAR K.B.	PAPER SIZE:17"X11"				
SCALE:AS NOTED	REV:E				
DATE:12/12/2022	S-01				







		CONDUIT	SCHEDULE	
TAG ID         CONDUIT SIZE         CONDUCTOR		NEUTRAL	GROUND	
1	NONE	(4) 10AWG PV WIRE	NONE	(1) 6AWG BARE COPPER
1A	NONE	(2) 10AWG PV WIRE	NONE	(1) 6AWG BARE COPPER
2	3/4"EMT	(4) 10AWG THHN/THWN-2	NONE	(1) 10AWG THHN/THWN-2
2A	3/4"EMT	(2) 10AWG THHN/THWN-2	NONE	(1) 10AWG THHN/THWN-2
3	1-1/4" SCH 40 PVC (BELOW GROUND) 3/4" SCH 80 PVC (ABOVE GROUND)	(2) 10AWG THHN/THWN-2	NONE	(1) 10AWG THHN/THWN-2
4	3/4"EMT	(2) 6AWG THHN/THWN-2	(1) 6AWG THHN/THWN-2	(1) 10AWG THHN/THWN-2
5	1"EMT	(2) 4AWG THHN/THWN-2	(1) 4AWG THHN/THWN-2	(1) 6AWG THHN/THWN-2

#### NOTE:

SUB PANEL RATING:125A, SUB FEEDER BREAKER RATING:60A 120% RULE: (125AX1.2)-60A=90A =>ALLOWABLE BACKFEED IS 90A

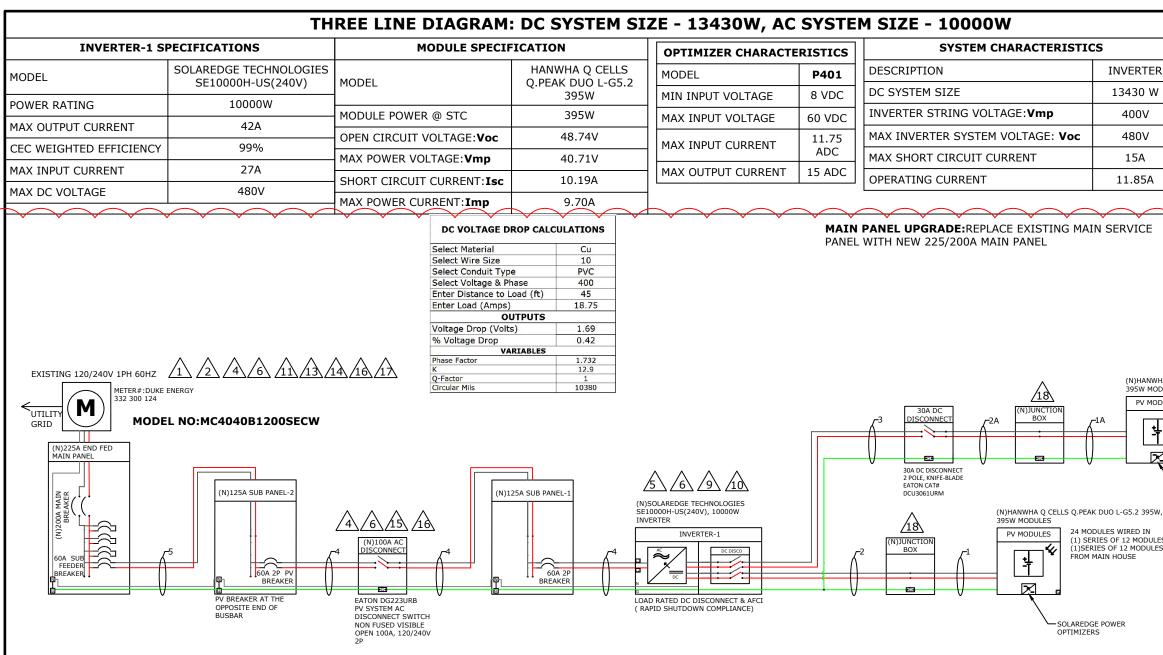
#### **OCPD CALCULATIONS:**

INVERTER OVERCURRENT PROTECTION= INVERTER O/P I X CONTINUOUS L =42x1.25= 52.5A=>PV BREAKER = 60A ALLOWABLE BACKFEED 90A =>60A PV BREAKER

### THE DESIGNED INTERCONNECTION MEETS THE 705.12(B)(2) REQUI



	ELECTRIC	AL NOTES
	PER NEC 310.10(D). 2. CONDUCTORS EXO LOCATIONS SHALL BE IN WET LOCATIONS P 3. MAXIMUM DC/AC V BE NO MORE THAN 29 4. ALL CONDUCTORS UNLESS OTHERWISE 5. BREAKER/FUSE SIZ 6. AC EQUIPMENT GR CONDUCTOR SIZED P 7. AMBIENT TEMPERA FACTOR IS BASED ON 8. AMBIENT TEMPERA FACTOR IS BASED ON	SUNLIGHT RESISTANT PSED TO WET SUITABLE FOR USE PER NEC 310.10(C). /OLTAGE DROP SHALL %. SHALL BE IN CONDUIT NOTED. ZES PER NEC 240. OUNDING PER NEC 250.122. TURE CORRECTION I NEC 690.31(A). TURE ADJUSTMENT NEC 310.15(B)(2). AGE CORRECTION IS E SIZED PER NEC
HA Q CELLS Q.PEAK DUO L-G5.2 395W, DULES 10 MODULES WIRED IN (1)SERIES OF 10 MODULES FROM GARAGE GROUND ROD 5/8" X 8" S.S. (N)GROUNDING ELECTRODE SOLAREDGE POWER OPTIMIZERS	ADDRESS: 525W MESA AZ,85210 LICENSE#: GC:84	4439 EC:U.34445
I ULES & <	NAME: PAUL ODOM	NFORMATION
<	ADDRESS:104 WOOD 28339	DALL DR, ERWIN, NC
<	35.320226, -78.6677 APN: 060-597-020-2	
<	HJ:NC-TOWN OF ER	ŞY
DAD(1.25)		SSS SMINE i se quality matters
<	SINGLE LIN	IE DIAGRAM
<	DRAFTED BY: KRISHNAN A.N. QC'ED BY: RAJ KUMAR K.B.	PAPER SIZE:17"X11"
<	SCALE:AS NOTED	REV:E
5	DATE:12/12/2022	E-01



CONDUIT SCHEDULE							
TAG ID	CONDUIT SIZE	CONDUCTOR	NEUTRAL	GROUND			
1	NONE	(4) 10AWG PV WIRE	NONE	(1) 6AWG BARE COPPER			
1A	NONE	(2) 10AWG PV WIRE	NONE	(1) 6AWG BARE COPPER			
2	3/4"EMT	(4) 10AWG THHN/THWN-2	NONE	(1) 10AWG THHN/THWN-2			
2A	3/4"EMT	(2) 10AWG THHN/THWN-2	NONE	(1) 10AWG THHN/THWN-2			
3	1-1/4" SCH 40 PVC (BELOW GROUND) 3/4" SCH 80 PVC (ABOVE GROUND)	(2) 10AWG THHN/THWN-2	NONE	(1) 10AWG THHN/THWN-2			
4	3/4"EMT	(2) 6AWG THHN/THWN-2	(1) 6AWG THHN/THWN-2	(1) 10AWG THHN/THWN-2			
5	1"EMT	(2) 4AWG THHN/THWN-2	(1) 4AWG THHN/THWN-2	(1) 6AWG THHN/THWN-2			

#### NOTE:

SUB PANEL RATING:125A, SUB FEEDER BREAKER RATING:60A 120% RULE: (125AX1.2)-60A=90A =>ALLOWABLE BACKFEED IS 90A

#### **OCPD CALCULATIONS:**

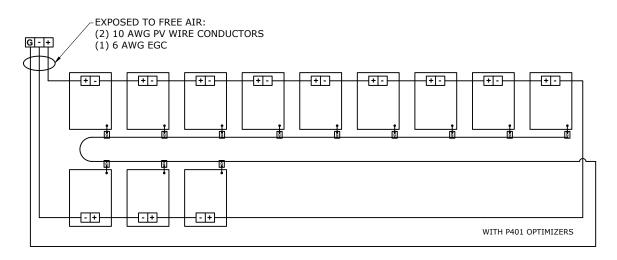
INVERTER OVERCURRENT PROTECTION= INVERTER O/P I X CONTINUOUS =42x1.25= 52.5A=>PV BREAKER = 60A ALLOWABLE BACKFEED 90A =>60A PV BREAKER THE DESIGNED INTERCONNECTION MEETS THE 705.12(B)(2) REQU



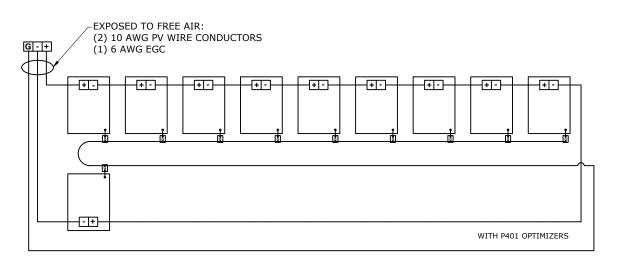
	ELECTRIC	AL NOTES
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	ADDRESS:104 WOOL 28339	DALL DR, ERWIN, NC
<	35.320226, -78.6677 APN: 060-597-020-2	
		18 WIN
5 LOAD(1.25) JIREMENTS.	APN: 060-597-020-2 AHJ:NC-TOWN OF ER UTILITY:DUKE ENERG PRN NUMBER:TPS-40	18 WIN
$\langle \rangle$	APN: 060-597-020-2 AHJ:NC-TOWN OF ER UTILITY:DUKE ENERG PRN NUMBER:TPS-40	18 WIN 595 <b>JMINE i</b>
$\langle \rangle$	APN: 060-597-020-2 AHJ:NC-TOWN OF ER UTILITY:DUKE ENERG PRN NUMBER:TPS-40	18 WIN 595 <b>IMINE i</b> se quality matters
$\langle \rangle$	APN: 060-597-020-2 AHJ:NC-TOWN OF ER UTILITY:DUKE ENERG PRN NUMBER:TPS-40 PRN NUMBER:TPS-40 THREE LIN Because THREE LIN DRAFTED BY: KRISHNAN A.N. QC'ED BY:	18 WIN 595 <b>IMINE i</b> se quality matters E DIAGRAM

### **STRING WIRING DIAGRAM**

### 2 STRINGS OF 12 MODULES ON MAIN HOUSE



### 1 STRING OF 10 MODULES ON GARAGE





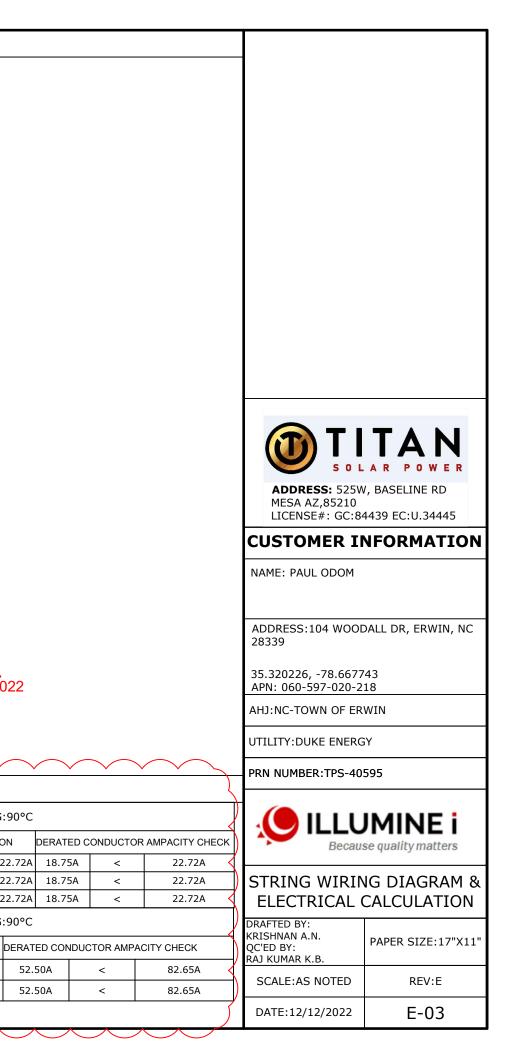
52.50A

52.50A

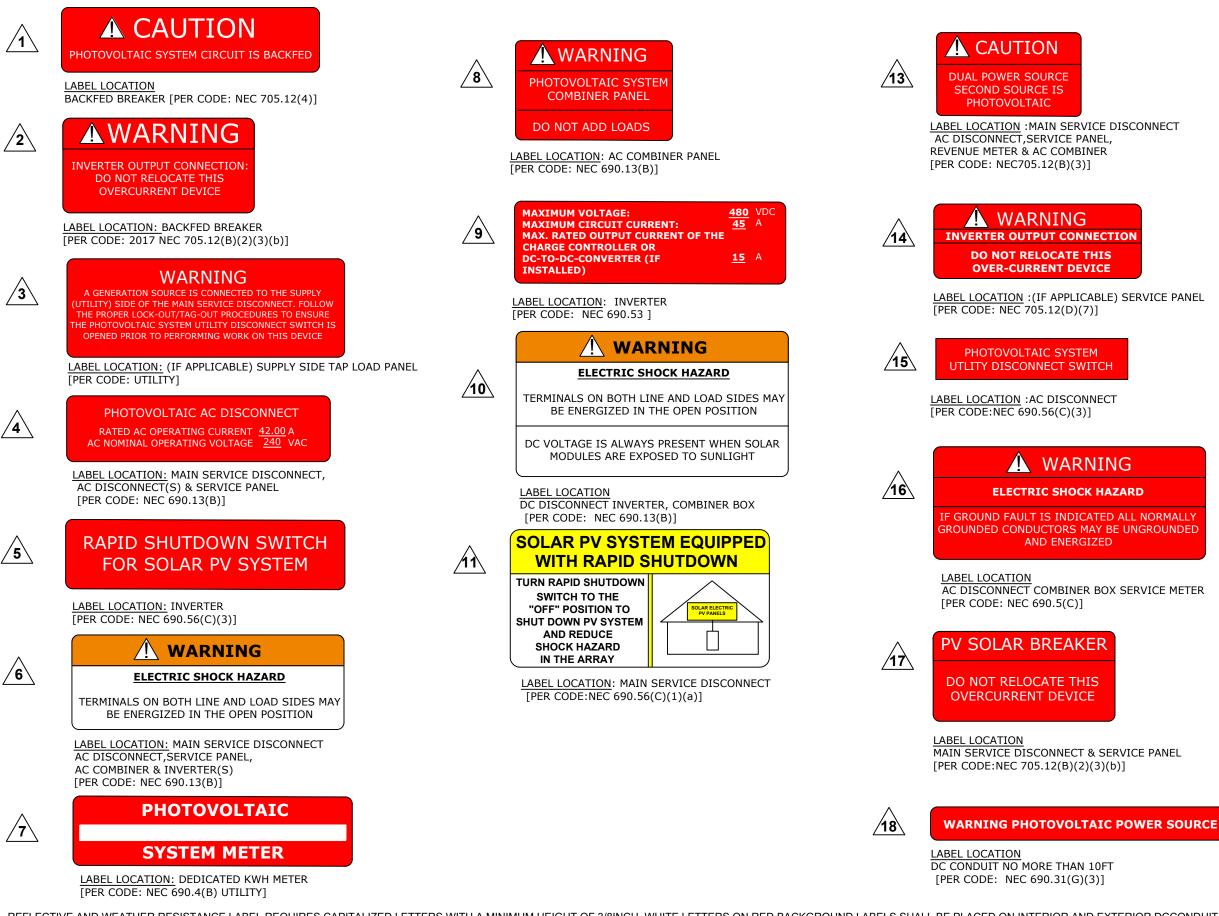
### **ELECTRICAL CALCULATION**

TIONS BASED ON THE FOLLOWING EQUATIONS>> AMPACITY: 125% X Isc(A) X #OF PARALLEL STRINGS =								DC	WIRE C	ALCU	LATIONS	5:- M	ATE	RIAL:0	COPF	PER 8	& TEMPE	RATI	URE RA	TING	G:90°C	
(A)(1) X 125% = MAX CURRENT PER 690.8(B)(1) ALCULATIIONS: AMAPCITY X TEMPERATURE DERATE					F	REQL	JIRED	COND	UCTOR AI	MPACI	ΓY				CO	RREC	CTED AMP	ACIT	Y CALC	ULATI	ON	DE
DERATE = DERATED CONDUCTOR AMPACITY PER	1,1A	1	X	15	X	<	1	=	15	Х	1.25	=	18.75	5A	40	Х	0.71	х	0.8	=	22.72A	
PACITY CHECK: MAX CURRENT PER 690.8(A)(1) <	2,2A	1	Х	15	×	<	1	=	15	Х	1.25	= :	18.75	5A	40	Х	0.71	Х	0.8	=	22.72A	
MPACITY	3	1	X	15	X	(	1	=	15	Х	1.25	= :	18.75	δA	40	Х	0.71	Х	0.8	=	22.72A	
TIONS BASED ON THE FOLLOWING EQUATIONS>> AMPACITY: INVERTER OUTPUT CURRENT X #OF INVERTERS																						
0.8(A)(3) X 125% = MAX CURRENT PER 690.8(B)(1) ALCULATIONS: AMPACITY X TEMPERATURE DERATE DERATE = DERATED CONDUCTOR AMPACITY PER	TAG ID	TAG ID REQUIRED CONDUCTOR AMPACITY COR										ORREO	RRECTED AMPACITY CALCULATION DEF						DERAT	ED		
	4	4	2	х	1	=	42	Х	1.25	=	52.50A	75	х	0.87	x	1	=		82.65	A	52.5	50
MPACITY CHECK: MAX CURRENT PER 690.8(A)(3) <	5	4	2	х	1	=	42	Х	1.25	=	52.50A	95	х	0.87	x	1	=		82.65	A	52.5	50

- DC WIRE SIZING CALCULATIO
- REQUIRED CONDUCTOR AM MAX CURRENT PER 690.8(A CORRECTED AMPACITY CAL FACTOR X COUDUIT FILL DI
- 690.8(B)(2) DERATE CONDUCTOR AMPA
- DERATED CONDUCTOR AMP AC WIRE SIZING CALCULATI
- REOUIRED CONDUCTOR AM
- = MAX CURRENT PER 690.8 CORRECTED AMPACITY CAL
- FACTOR X CONDUIT FILL D 690.8(B)(2) DERATED CONDUCTOR AMP.
- 'ER 690.8(A)(3) DERATED CONDUCTOR AMPACITY



### WARNING PLACARDS



REFLECTIVE AND WEATHER RESISTANCE LABEL REQUIRES CAPITALIZED LETTERS WITH A MINIMUM HEIGHT OF 3/8INCH, WHITE LETTERS ON RED BACKGROUND LABELS SHALL BE PLACED ON INTERIOR AND EXTERIOR DCCONDUIT, RACEWAYS, ENCLOSURE, AND CABLE ASSEMBLIES EVERY 10 FEET, WITHIN 1 FOOT OF TURNS OR BENDSAND WITHIN 1 FOOT ABOVE AND BELOW PENETRATIONS OF ROOF/ CEILING ASSEMBLIES, WALLS OR BARRIERS.











ADDRESS: 525W, BASELINE RD MESA AZ,85210 LICENSE#: GC:84439 EC:U.34445

### **CUSTOMER INFORMATION**

NAME: PAUL ODOM

ADDRESS:104 WOODALL DR, ERWIN, NC 28339

35.320226, -78.667743 APN: 060-597-020-218

AHJ:NC-TOWN OF ERWIN

UTILITY: DUKE ENERGY

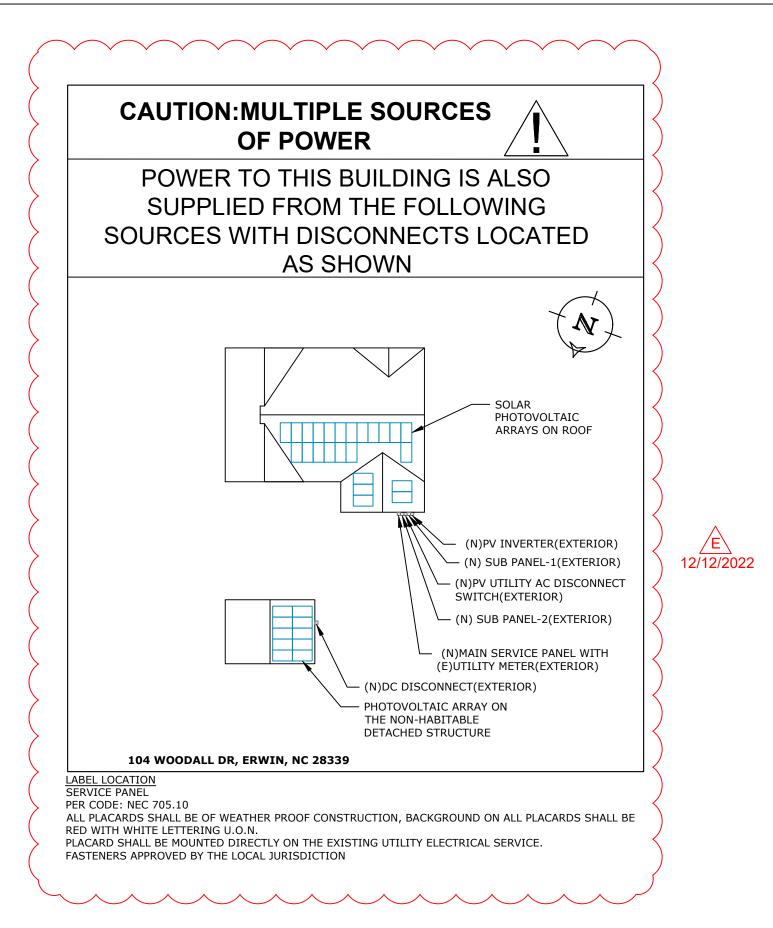
PRN NUMBER: TPS-40595



### WARNING PLACARDS

DRAFTED BY: KRISHNAN A.N. QC'ED BY: RAJ KUMAR K.B.	PAPER SIZE:17"X11"
SCALE:AS NOTED	REV:E
DATE:12/12/2022	PL-01

### **DIRECTORY PLACARD**





**ADDRESS:** 525W, BASELINE RD MESA AZ,85210 LICENSE#: GC:84439 EC:U.34445

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### DIRECTORY PLACARD

DRAFTED BY:					
KRISHNAN A.N.	PAPER SIZE:17"X11"				
QC'ED BY:					
RAJ KUMAR K.B.					
SCALE:AS NOTED	RFV:F				

DATE:12/12/2022

PL-02

### **SAFETY PLANS-1**

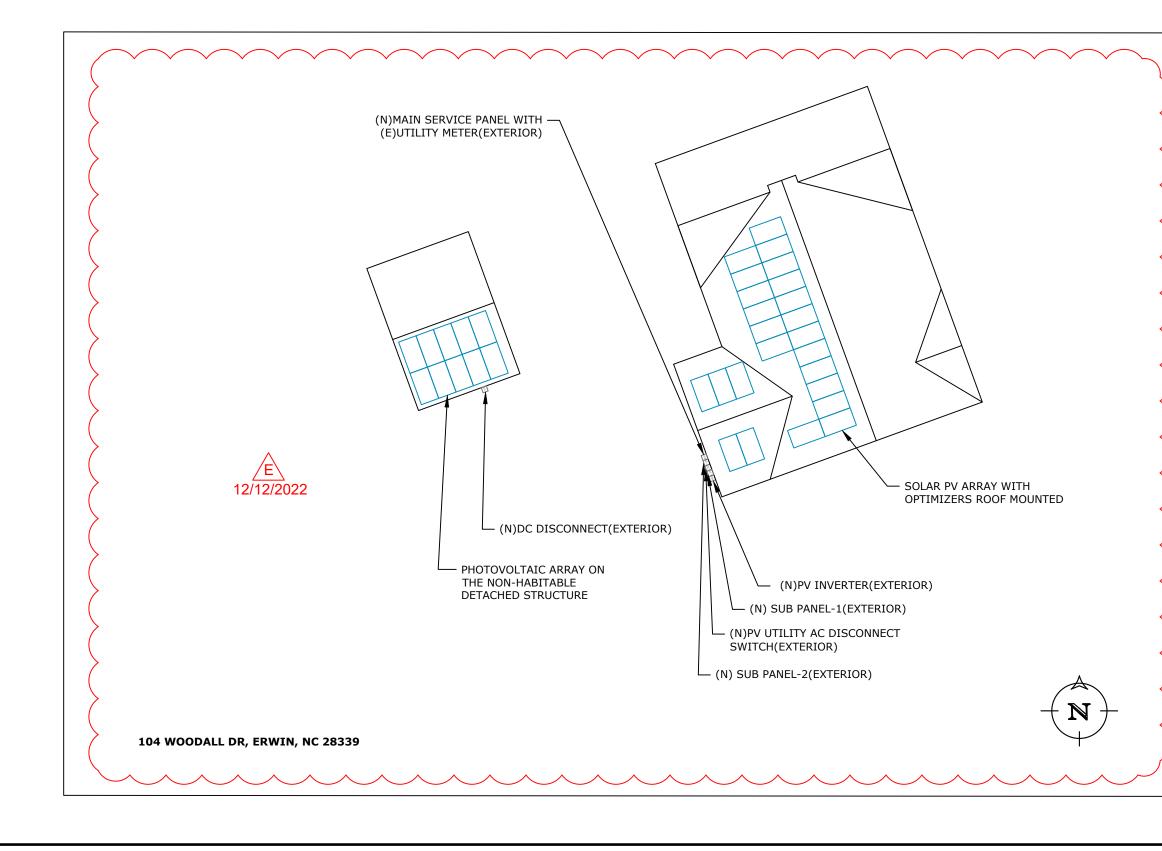
### **SAFETY PLANS**

#### NOTES:

- 1. INSTALLERS SHALL DRAW IN DESIGNATED SAFETY AREA AROUND HOME.
- INSTALLERS SHALL UPDATE NAME ADDRESS AND PHONE NUMBER OF NEAREST.
   URGENT CARE FACILITY RELATIVE TO THE SITE BEFORE STARTING WORK.

#### LOCATION OF NEAREST URGENT CARE FACILITY

NAME: ADDRESS: PHONE NUMBER:





**ADDRESS:** 525W, BASELINE RD MESA AZ,85210 LICENSE#: GC:84439 EC:U.34445

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35.320226, -78.667743 APN: 060-597-020-218

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UTILITY: DUKE ENERGY

PRN NUMBER: TPS-40595



### SAFETY PLANS-1

DRAFTED BY: KRISHNAN A.N. QC'ED BY: RAJ KUMAR K.B.	PAPER SIZE:17"X11"
SCALE:AS NOTED	REV:E

PL-03

DATE:12/12/2022

### SAFETY PLANS

NOTES:

- 1. INSTALLERS SHALL DRAW IN DESIGNATED SAFETY AREA AROUND HOME.
- 2. INSTALLERS SHALL UPDATE NAME ADDRESS AND PHONE NUMBER OF NEAREST.
- 3. URGENT CARE FACILITY RELATIVE TO THE SITE BEFORE STARTING WORK.

LOCATION OF NEAREST URGENT CARE FACILITY

NAME: ADDRESS: PHONE NUMBER:

### PERSONS COVERED BY THIS JOB SAFETY PLAN

### INJURED AT WORK TODAY?

### **INITIAL YES OR NO**

PRINT NAME	INITIAL	YES	NO

UNDERGROUND DIG REQUIRED?

YES \_\_\_\_\_ PERMIT #\_\_\_\_\_



**ADDRESS:** 525W, BASELINE RD MESA AZ,85210 LICENSE#: GC:84439 EC:U.34445

### CUSTOMER INFORMATION

NAME: PAUL ODOM

ADDRESS:104 WOODALL DR, ERWIN, NC 28339

35.320226, -78.667743 APN: 060-597-020-218

AHJ:NC-TOWN OF ERWIN

UTILITY: DUKE ENERGY

PRN NUMBER: TPS-40595



### SAFETY PLANS-2

DRAFTED BY:	
KRISHNAN A.N.	PAPER SIZE:17"X11"
QC'ED BY:	PAPER SIZE:17 XII
RAJ KUMAR K.B.	
SCALE: AS NOTED	REV:E

DATE:12/12/2022

REV:E

### SPEC SHEET

QCELLS

HOT-SPOT (HSP)

Photon

QCELLS

Best polycrystalline solar module 2014

0.PRO-62 235

2018

<sup>1</sup> APT test conditions according to

See data sheet on rear for further

**Q**CELLS

method B (-1500V, 168h)

IEC/TS 62804-1:2015

information.

## EAK DUO L-G5,2 380-395 P

### **Q.ANTUM SOLAR MODULE**

Q.ANTUM DUD

The new high-performance module Q.PEAK DUO L-G5.2 is the ideal solution for commercial and utility applications thanks to a combination of its innovative cell technology Q.ANTUM and cutting edge cell interconnection. This 1500 V IEC/UL solar module with its 6 busbar cell design ensures superior yields with up to 395 Wp while having a very low LCOE.



M

#### LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.9%.

#### **INNOVATIVE ALL-WEATHER TECHNOLOGY**

Optimal yields, whatever the weather with excellent low-light and temperature behavior.

#### ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q<sup>™</sup>.

#### EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).

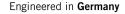


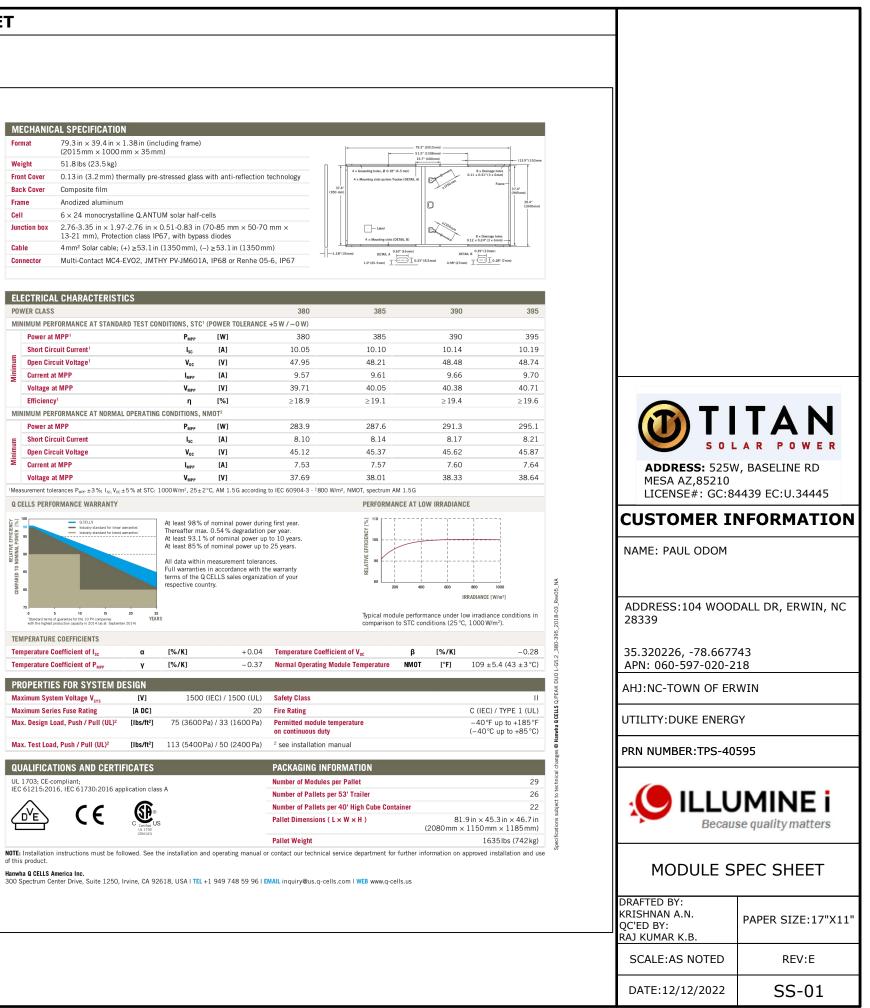
### **A RELIABLE INVESTMENT**

Inclusive 12-year product warranty and 25-year linear performance warranty<sup>2</sup>.

#### THE IDEAL SOLUTION FOR:







	ECTRICAL CHARACTERISTI WER CLASS				380	385		390
	VIMUM PERFORMANCE AT STANDA	RD TEST CO	NDITIONS, STC <sup>1</sup>	(POWER TOLERA		505	```	330
	Power at MPP <sup>1</sup>		P <sub>MPP</sub>	[W]	380	385	2	390
	Short Circuit Current <sup>1</sup>		I <sub>SC</sub>	[A]	10.05	10.10		.14
ŝ	Open Circuit Voltage <sup>1</sup>	V <sub>oc</sub>	[V]	47.95	48.21		.48	
Minimum	Current at MPP		IMPP	[A]	9.57	9.61	9	.66
2	Voltage at MPP		V <sub>MPP</sub>	[V]	39.71	40.05	40	.38
	Efficiency <sup>1</sup>		η	[%]	≥18.9	≥19.1	$\geq 1$	9.4
MIN	NIMUM PERFORMANCE AT NORMAL	OPERATING	CONDITIONS, I	MOT <sup>2</sup>				
	Power at MPP		PMPP	[W]	283.9	287.6	29	1.3
ε	Short Circuit Current		I <sub>sc</sub>	[A]	8.10	8.14	8	.17
Minimum	Open Circuit Voltage		V <sub>oc</sub>	[V]	45.12	45.37	45	.62
ž	Current at MPP		I <sub>MPP</sub>	[A]	7.53	7.57	7	.60
	Voltage at MPP		VMPP	[V]	37.69	38.01	38	.33
COMPARED TO NOMINAL POWER	Provide the second seco	20 22 YEA	At least 93.1 At least 85% All data within Full warranties terms of the Q respective cou	x. 0.54% degradal % of nominal power of measurement tole in accordance with CELLS sales organism ntry. + 0.0	r up to 10 years. up to 25 years. erances. hit hte warranty nization of your	Typical module procession of V <sub>oc</sub>		25°
	nperature Coefficient of P <sub>MPP</sub>	ν γ	[%/K]	- 0.3	•		NOT [°F]	
								_
	OPERTIES FOR SYSTEM DI							
Max	ximum System Voltage V <sub>sys</sub>	[V]	1500	(IEC) / 1500 (U				
	ximum Series Fuse Rating	[A DC]		2	20 Fire Rating			
	<u> </u>							
	x. Design Load, Push / Pull (UL) <sup>2</sup>	[lbs/ft²]	75 (3600)	Pa) / 33 (1600 P	a) Permitted module on continuous dut			
Max	<u> </u>	[lbs/ft²] [lbs/ft²]		Pa) / 33 (1600 P Pa) / 50 (2400 P	on continuous dut	y .		
Max Max	x. Design Load, Push / Pull (UL) <sup>2</sup>	[lbs/ft²]			on continuous dut	manual		
Max Max QU	x. Design Load, Push / Pull (UL) <sup>2</sup> x. Test Load, Push / Pull (UL) <sup>2</sup>	[lbs/ft <sup>2</sup> ]	113 (5400)		on continuous dut	manual FORMATION		

### SPEC SHEET

**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



### Optimized installation with HD-Wave technology

- 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 and 2017, per article 690.11 and 690.12

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- / Specifically designed to work with power optimizers / UL1741 SA certified, for CPUC Rule 21 grid compliance
  - **/** Small, lightweight, and easy to install both outdoors or indoors
  - Built-in module-level monitoring
  - I Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)



## / 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	SE1000			
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-XXXXBXX4								
OUTPUT									
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10			
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10			
AC Output Voltage MinNomMax. (211 - 240 - 264)	~	~	~	~	~				
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	~	-	~	-				
AC Frequency (Nominal)		59.3 - 60 - 60.5%							
Maximum Continuous Output Current @240V	12.5	16	21	25	32				
Maximum Continuous Output Current @208V	-	16	-	24	-				
Power Factor			1,	, Adjustable - 0.85 to	0.85				
GFDI Threshold				1					
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes					
INPUT									
Maximum DC Power @240V	4650	5900	7750	9300	11800	15			
Maximum DC Power @208V	-	5100	-	7750	-				
Transformer-less, Ungrounded				Yes					
Maximum Input Voltage				480					
Nominal DC Input Voltage		3	180			Z			
Maximum Input Current @240V <sup>(2)</sup>	8.5	10.5	13.5	16.5	20				
Maximum Input Current @208V <sup>(2)</sup>	-	9	-	13.5	-				
Max. Input Short Circuit Current				45					
Reverse-Polarity Protection		Yes							
Ground-Fault Isolation Detection		600kΩ Sensitivity							
Maximum Inverter Efficiency	99			g	19.2				
CEC Weighted Efficiency				99					
Nighttime Power Consumption				< 2.5					

Por 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

00H-US	SE11400H-US	
000	11400 @ 240V 10000 @ 208V	VA
000	11400 @ 240V 10000 @ 208V	VA
/	~	Vac
-	~	Vac
	r	Hz
42	47.5	А
-	48.5	А
		A
500	17650	W
-	15500	W
		Vdc
00		Vdc
27	30.5	Adc
-	27	Adc
		Adc
		%
	99 @ 240V 98.5 @ 208V	%
		W



MESA AZ,85210 LICENSE#: GC:84439 EC:U.34445

### CUSTOMER INFORMATION

NAME: PAUL ODOM

ADDRESS:104 WOODALL DR, ERWIN, NC 28339

35.320226, -78.667743 APN: 060-597-020-218

AHJ:NC-TOWN OF ERWIN

UTILITY: DUKE ENERGY

PRN NUMBER: TPS-40595



### INVERTER SPEC SHEET

DRAFTED BY: KRISHNAN A.N. QC'ED BY: RAJ KUMAR K.B.	PAPER SIZE:17"X11"
SCALE:AS NOTED	REV:E
DATE:12/12/2022	SS-02

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

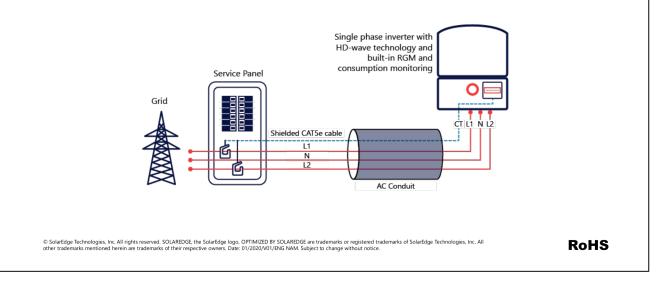
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
ADDITIONAL FEATURES								
Supported Communication Interfaces			RS485, Etherne	t, ZigBee (optional),	Cellular (optional)			
Revenue Grade Metering, ANSI C12.20				Optional <sup>(3)</sup>				
Consumption metering		·						
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, Canadian AFCI according to T.I.L. M-07						
Grid Connection Standards		IEEE1547, Rule 21, Rule 14 (HI)						
Emissions				FCC Part 15 Class E	3			
INSTALLATION SPECIFICA	TIONS							
AC Output Conduit Size / AWG Range		1''	Maximum / 14-6 AV	/G		1" Maximum	14-4 AWG	
DC Input Conduit Size / # of Strings / AWG Range		1'' Maxir	num / 1-2 strings / 14	I-6 AWG		1" Maximum / 1-3	strings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)		17.7 x <sup>-</sup>	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
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		-40 to +140 / -40 to +60%						°F/°C
Protection Rating			NEMA 4	1X (Inverter with Safe	ety Switch)			

<sup>III</sup> Inverter with Revenue Grade Meter P/N: SExxxH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxH-US000BNI4. For consumption metering, current transformers should be ordered separately. SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box.
<sup>IIII</sup> 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

#### How to Enable Consumption Monitoring

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





**ADDRESS:** 525W, BASELINE RD MESA AZ,85210 LICENSE#: GC:84439 EC:U.34445

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AHJ:NC-TOWN OF ERWIN

UTILITY: DUKE ENERGY

PRN NUMBER: TPS-40595



### **INVERTER SPEC SHEET**

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RAJ KUMAR K.B.	
SCALE:AS NOTED	REV:E

DATE:12/12/2022

SS-03

# **Power Optimizer**

**For North America** P370 / P400 / P401 / 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%)
- / Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization

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- 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 Optimizer For North America

P370 / P400 / P401 / P485 / P505

Optimizer model (typical module compatibility)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96- cell modules)	P401 (for high power 60 and 72 cell modules)	P485 (for high-voltage modules)	P505 (for higher current modules)		
INPUT							
Rated Input DC Power®	370		400	485	505	W	
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	80	60	125(2)	83(2)	Vdc	
MPPT Operating Range	8 - 60	8 - 80	8-60	12.5 - 105	12.5 - 83	Vdc	
Maximum Short Circuit Current (Isc)	11	10.1	11.75	11	14	Adc	
Maximum Efficiency			99.5			%	
Weighted Efficiency			98.8			%	
Overvoltage Category		I					
OUTPUT DURING OPERATIO	N (POWER OPTIMIZE	R CONNECTED	TO OPERATING SO	AREDGE INVERT	ER)		
Maximum Output Current			15			Adc	
Maximum Output Voltage	60 85					Vdc	
OUTPUT DURING STANDBY (F	OWER OPTIMIZER DI	SCONNECTED	FROM SOLAREDGE IN	VERTER OR SOLA	REDGE INVERTER	OFF	
Safety Output Voltage per Power Optimizer			1 ± 0.1			Vdc	
STANDARD COMPLIANCE							
Photovoltaic Rapid Shutdown System	N	VEC 2014, 2017 & 202	0	NEC 2014, 2017 & 2020	NEC 2014, 2017 & 2020		
EMC		FCC Part	15 Class B, IEC61000-6-2, IEC6	1000-6-3			
Safety		IE	C62109-1 (class II safety), UL17	41			
Material			UL94 V-0 , UV Resistant				
RoHS			Yes				
INSTALLATION SPECIFICATIO	ONS						
Maximum Allowed System Voltage			1000			Vdc	
Compatible inverters		All SolarEdg	e Single Phase and Three Pha	se 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 153 x 33.5 / 5.1 x 6 x 1.3	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm / in	
Weight (including cables)	655 / 1.4	750 / 1.7	655 / 1.4	845 / 1.9	1064 / 2.3	gr / It	
Input Connector		MC4(3)		Single or dual MC4 <sup>(3)(4)</sup>	MC4(3)		
Input Wire Length	0.16 / 0.52, 0.9 / 2.954	0.16 / 0.52	0.16 / 0.52, 0.9 / 2.95(4)	0.16 / 0.52	0.16 / 0.52	m/f	
Output Wire Type / Connector			Double Insulated / MC4				
Output Wire Length			1.2 / 3.9			m/f	
Operating Temperature Range <sup>(5)</sup>			-40 to +85 / -40 to +185			°C/°	
Protection Rating			IP68 / NEMA6P				
Relative Humidity		0 - 100					

(2) NEC 2017 requires max input voltage be not more than 80V(3) For other connector types please contact SolarEdge

(4) For dual version for parallel connection of two modules use P485-4NMDMRM. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected to one PV module. When connecting a single module seal the unused input connectors with the supplied pair of seals (5) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details

PV System Design Using a SolarEdge Inverter <sup>(6)(7)</sup>		Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid		
Minimum String Length	P370, P400, P401	8		10	18		
(Power Optimizers)	P485, P505	6	6		14		
Maximum String Length (Power Optimizers)		25	25		50		
Maximum Nominal Power per String		5700 <sup>(8)</sup> (6000 with SE7600-US - SE11400-US)			12750(10)	W	
Parallel Strings of Different Lengths or Orientations			Yes				

(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 P485/P505 with P370/P400/P401 in one string

(8) If the inverters rated AC power s maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power. Refer to: https://www.solaredge.com/sites/default/files/se-power-optimizer-single-string-design-application-note.pdf

(9) For 208V grid: it is allowed to install up to 7,200W per string when the maximum power difference between each string is 1,000W (10) For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W

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POWER

PTIMIZ

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ADDRESS: 525W, BASELINE RD MESA AZ,85210 LICENSE#: GC:84439 EC:U.34445

### CUSTOMER INFORMATION

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35.320226, -78.667743 APN: 060-597-020-218

AHJ:NC-TOWN OF ERWIN

UTILITY: DUKE ENERGY

PRN NUMBER: TPS-40595



### **OPTIMIZER SPEC SHEET**

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KRISHNAN A.N.
QC'ED BY:
RAJ KUMAR K.B.

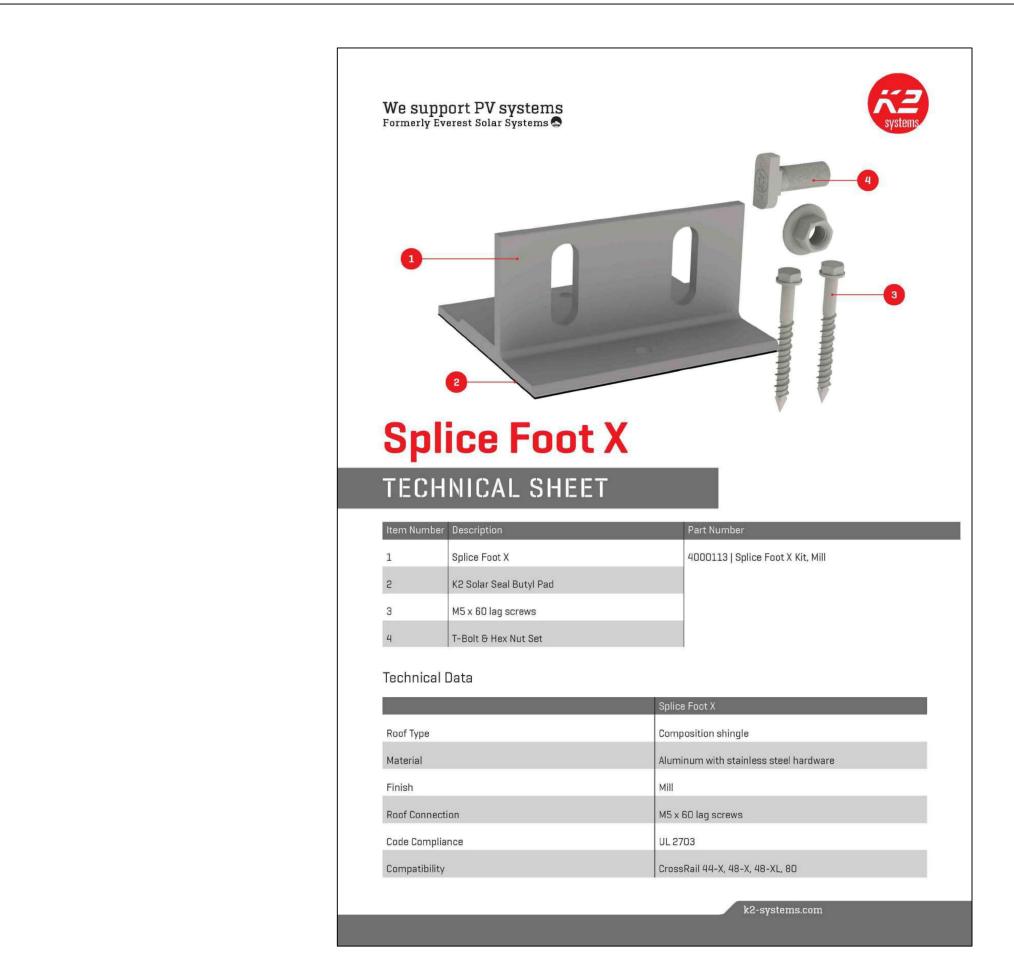
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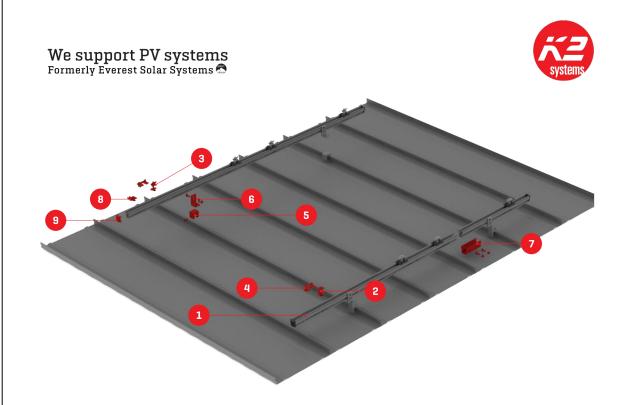
### MOUNT SPEC SHEET

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SS-05

### **SPEC SHEET**



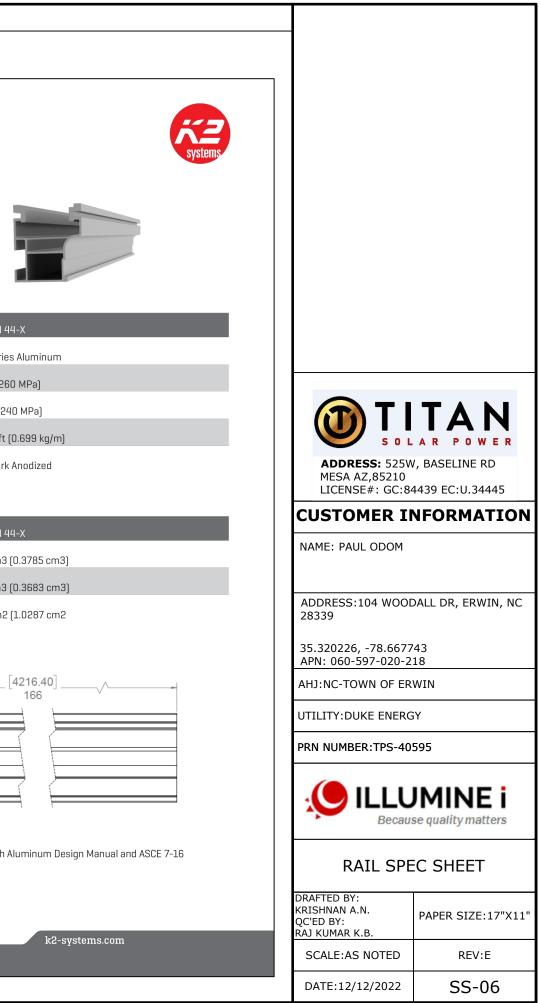
# **CrossRail Shared Rail System**

## **TECHNICAL SHEET**

ltem Number	Description	Part Number
1	CrossRail 44-X (shown) all CR profiles applicable	4000019 (166" mill), 4000020 (166" dark) , 4000021 (180" mill), 4000022 (180" dark)
2	CrossRail Mid Clamp	4000601-Н (mill), 4000602-Н (dark)
3	CrossRail (Standard) End Clamp	4000429 (mill), 4000430 (dark)
4	Add-On (5mm shown)	4000632 (5mm), 4000609 (10mm)
5	Standing Seam PowerClamp (mini shown)	4000016 (mini), 4000017 (standard)
6	L-Foot Slotted Set	4000630 (mill), 4000631 (dark)
7	CrossRail 44-X Rail Connector (shown) CR 48-X, 48-XL Rail Connector available	4000051 (mill), 4000052 (dark)
8	Everest Ground Lug	4000006-H
9	CrossRail 44-X End Cap (shown) CrossRail 48-X, 48-XL and 80 available	4000067

We support PV systems Formerly Everest Solar Systems 👁

## CROSSRAIL 44-X



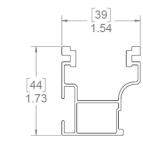
Mechanical Properties

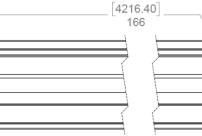
	CrossRail 44-X
Material	6000 Series Aluminum
Ultimate Tensile Strength	37.7 ksi (260 MPa)
Yield Strength	34.8 ksi (240 MPa)
Weight	0.47 lbs/ft (0.699 kg/m)
Finish	Mill or Dark Anodized

### Sectional Properties

	CrossRail 44-X
Sx	0.1490 in3 (0.3785 cm3)
Sy	0.1450 in3 (0.3683 cm3)
A (X-Section)	0.4050 in2 (1.0287 cm2

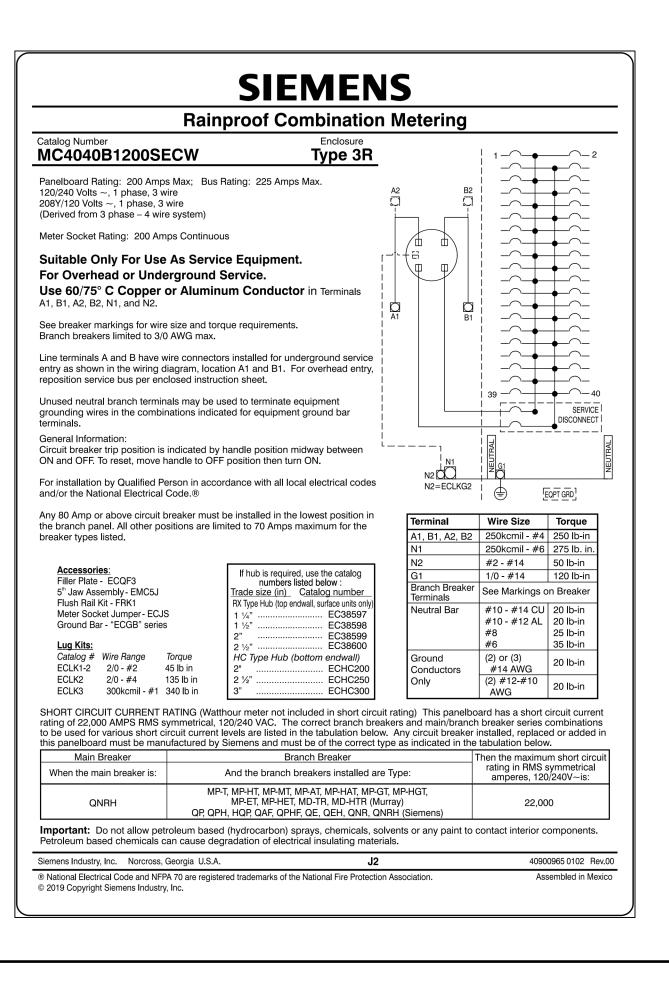
### Units: [mm] in





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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