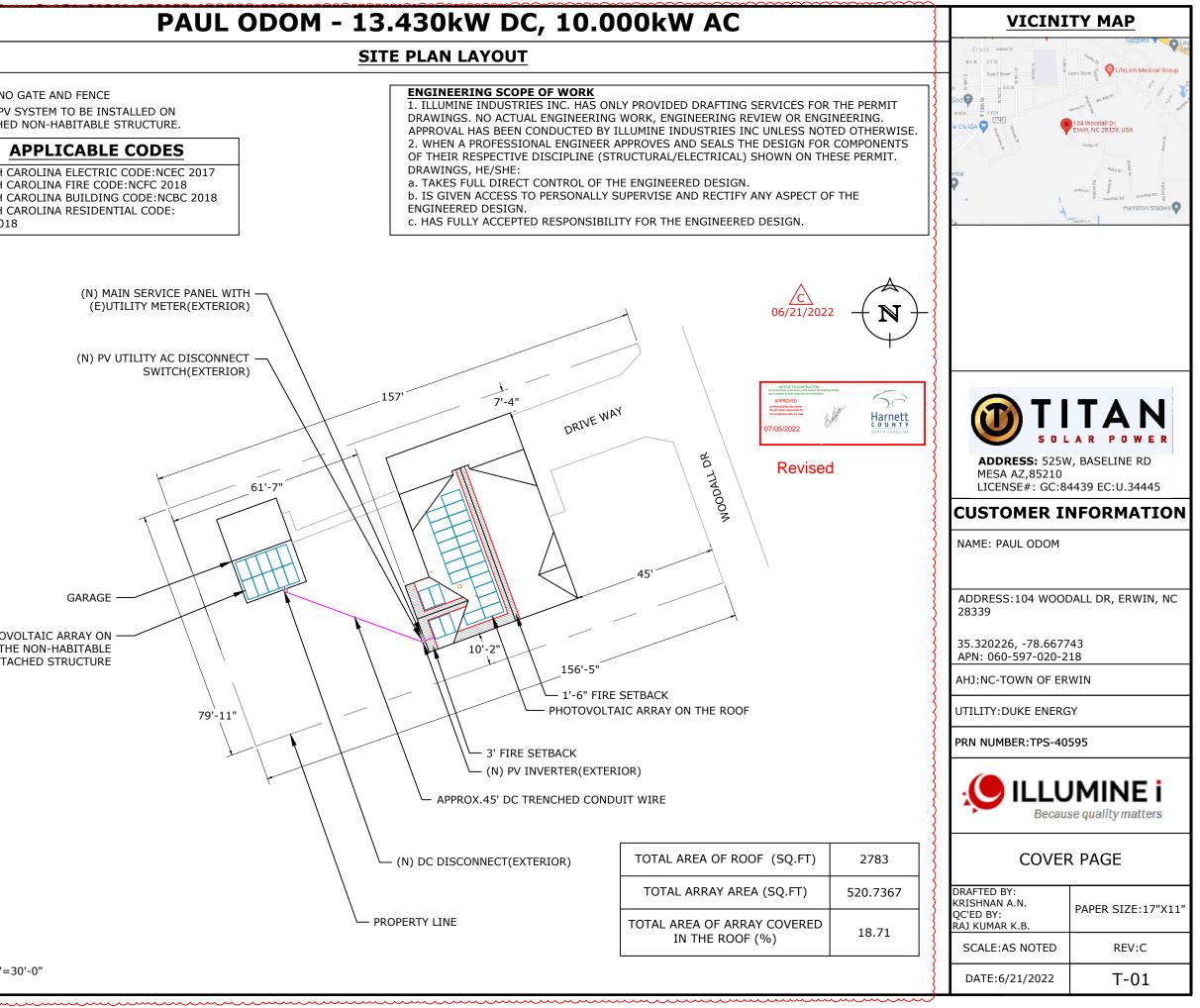
SHEET CATALOG		PAUL ODOM	I - 13.430kW DC, 10.0	00kW AC
INDEX NO.	DESCRIPTION		SITE PLAN LAYOUT	
T-01	COVER PAGE			
S-01	MOUNTING DETAIL	NOTE: NO GATE AND FENCE	ENGINEERING SCOPE OF WORK 1. ILLUMINE INDUSTRIES INC. HAS ON	
S-02	STRUCTURAL DETAIL	NOTE: PV SYSTEM TO BE INSTALLED ON DETACHED NON-HABITABLE STRUCTURE.	DRAWINGS. NO ACTUAL ENGINEERING	G WORK, ENGINEERING REVIEW OR EN
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: NCRC 2018	ENGINEERED DESIGN. c. HAS FULLY ACCEPTED RESPONSIBIL	ITY FOR THE ENGINEERED DESIGN
PL-02	DIRECTORY PLACARD	NCRC 2018		
PL-03	SAFETY PLANS-1			
PL-04	SAFETY PLANS-2			
SS	SPEC SHEET(S)	(N) MAIN SERVICE PANEL WITH — (E)UTILITY METER(EXTERIOR)		
<u>S(</u>	COPE OF WORK			06/21/20
INVERTER: (1)SOLAREDGE SE10000H-US(2 OPTIMIZER: (34)SOLAREDG	2 CELLS Q.PEAK DUO L-G5.2 395W TECHNOLOGIES	(N) PV UTILITY AC DISCONNECT SWITCH(EXTERIOR) 61'-7"	157' T'-4" DRIVE W	AN THOON
CONFORM TO T 2.INVERTERS A CONFORM TO T 3.DRAWINGS A GENERAL ARRA THE ACTUAL SI 4.WORKING CL ELECTRICAL EQ ACCORDANCE V 5.ALL GROUND SERVICE GROU SERVICE GROU SERVICE GROU SERVICE GROU STANDARD COP 7.WHEN REQUII FOR INSPECTIO REGULATIONS. 8.THE SYSTEM	RE LISTED UNDER UL 1703 AND HE STANDARDS. ARE LISTED UNDER UL 1741 AND HE STANDARDS. ARE DIAGRAMMATIC, INDICATING NGEMENT OF THE PV SYSTEM AND TE CONDITION MIGHT VARY. LEARANCES AROUND THE NEW PV DUIPMENT WILL BE MAINTAINED IN WITH NEC 110.26. WIRING CONNECTED TO THE MAIN VIDING IN MAIN SERVICE PANEL/ MENT. CTORS SHALL BE 600V, 75°C PPER UNLESS OTHERWISE NOTED. RED, A LADDER SHALL BE IN PLACE ON IN COMPLIANCE WITH OSHA WILL NOT BE INTERCONNECTED BY TOR UNTIL APPROVAL FROM THE	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(EXTER APPROX.45' DC TRENCHED COND	E SETBACK AIC ARRAY ON THE ROOF
LOCAL JURISDI 9.ROOF ACCES AREAS THAT D	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)
WINDOWS OR	ADDERS OVER OPENINGS SUCH AS DOORS, AND LOCATED AT STRONG			TOTAL ARRAY AREA (SQ.FT)
ACCESS POIN	LDING CONSTRUCTION WHERE THE T DOES NOT CONFLICT WITH 3STRUCTIONS SUCH AS TREES, NS.		PROPERTY LINE	TOTAL AREA OF ARRAY COVERED IN THE ROOF (%)
10.PV ARRA PROVIDES TRA CONDUIT WIRII	NSITION FROM ARRAY WIRING TO	SCALE:1"=30'-0"		



INSTALLATION NOTES

I.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:

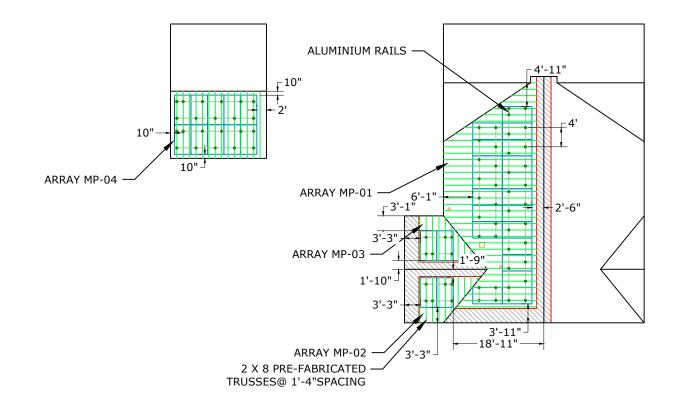
1.FOR PHOTOVOLTAIC ARRAYS OCCUPYING 66 PERCENT OR LESS OF THE PLAN VIEW TOTAL ROOF AREA, A SETBACK OF NOT LESS THAN 18 INCHES (457 MM) WIDE IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.

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

	SITE INFORMATION - WIND SPEED: 146 MPH AND SNOW LOAD: 10 PSF											
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°	20	433.9	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°	2	43.4	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

06/21/2022



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"

<u>/C</u> 06/21/2





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

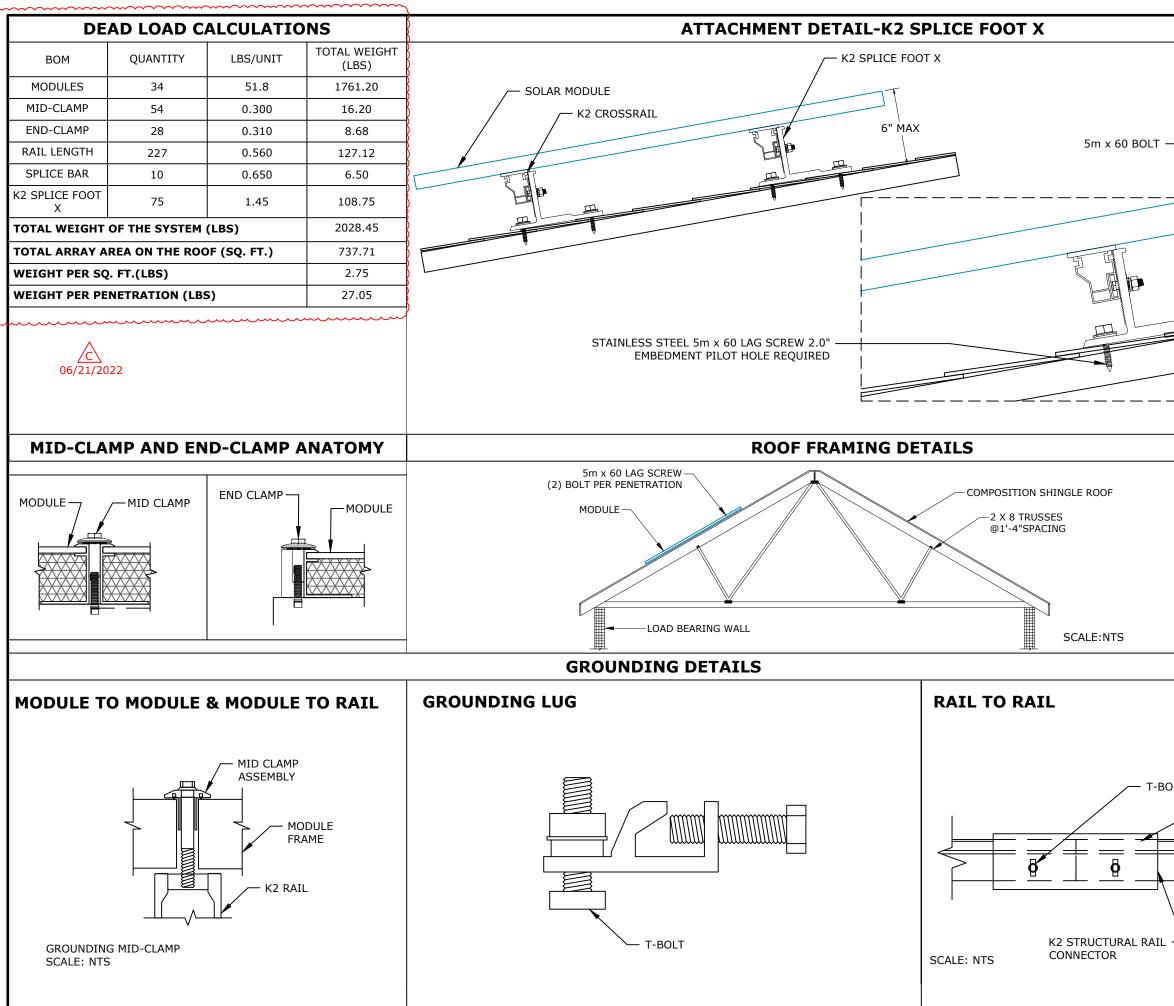
PRN NUMBER: TPS-40595



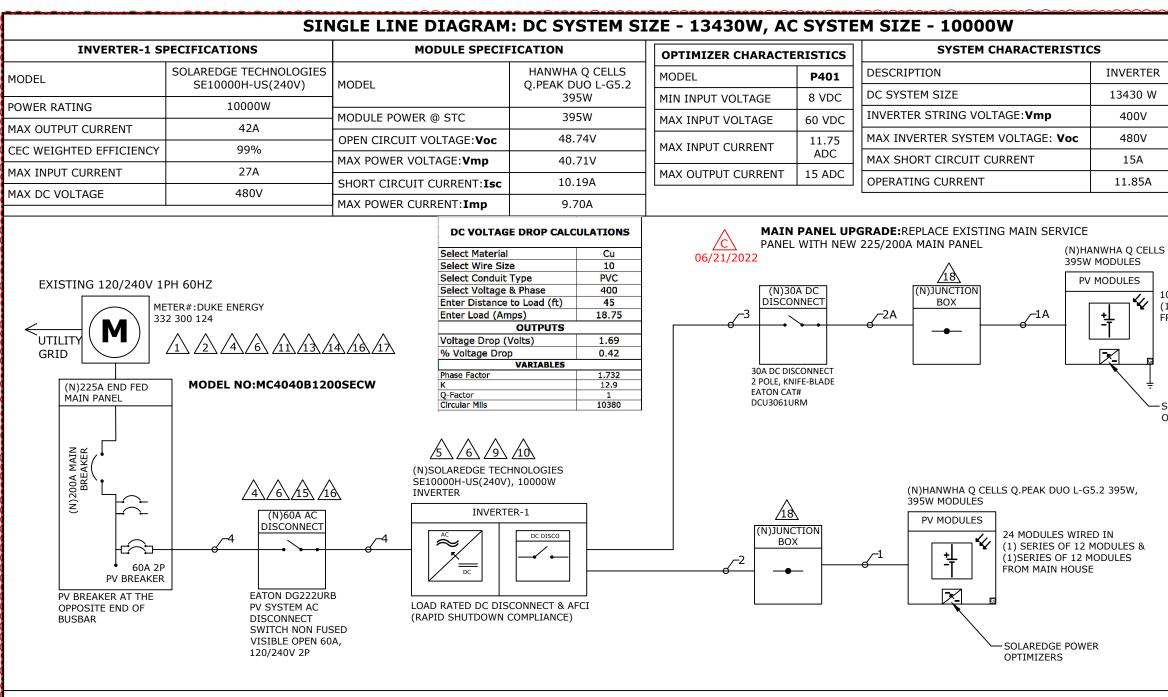
MOUNTING DETAIL

DRAFTED BY: KRISHNAN A.N. QC'ED BY: RAJ KUMAR K.B.	PAPER SIZE:17"X11"
SCALE:AS NOTED	REV:C
DATE:6/21/2022	S-01





	MODU	MODULES DATA				
	HANWHA Q CEL	LS Q.PEAK DUG 395W	0 L-G5.2			
	MODULE DIMS	79.3"x39.4	"x1.38"			
	LAG SCREWS	VS 5m x 60 x2.3":2.0"MI FMBEDMENT				
7	UPLIFT C	UPLIFT CALCULATIONS				
	UPLIFT	22131.3	LBS			
+	ן PULL OUT i STRENGTH	46125	LBS			
	POINT LOADING	23	LBS			
SCALE:NT	ADDRESS: 52 MESA AZ,852	C:84439 EC:U.	W E R E RD 34445			
	ADDRESS:104 W0 28339	DODALL DR, EF	RWIN, NC			
		67743	RWIN, NC			
	28339 	67743 0-218	RWIN, NC			
	28339 35.320226, -78.6 APN: 060-597-02	67743 0-218 ERWIN	RWIN, NC			
	28339 35.320226, -78.6 APN: 060-597-02 AHJ:NC-TOWN OF	67743 0-218 ERWIN ERGY	RWIN, NC			
DLT SCREW	28339 35.320226, -78.6 APN: 060-597-02 AHJ:NC-TOWN OF UTILITY:DUKE EN PRN NUMBER:TPS	67743 0-218 ERWIN ERGY -40595 UMIN Gause quality m	Ei natters			
	28339 35.320226, -78.6 APN: 060-597-02 AHJ:NC-TOWN OF UTILITY:DUKE EN PRN NUMBER:TPS	67743 0-218 ERWIN ERGY -40595	Ei natters			
	28339 35.320226, -78.6 APN: 060-597-02 AHJ:NC-TOWN OF UTILITY:DUKE EN PRN NUMBER:TPS	67743 0-218 ERWIN ERGY -40595 .UMIN cause quality m	Ei natters			
	28339 35.320226, -78.6 APN: 060-597-02 AHJ:NC-TOWN OF UTILITY:DUKE EN PRN NUMBER:TPS PRN NUMBER:TPS STRUCT DRAFTED BY: KRISHNAN A.N. QC'ED BY:	67743 0-218 ERWIN ERGY -40595 UMIN cause quality m URAL DET	E i natters			



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) 10AWG 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		

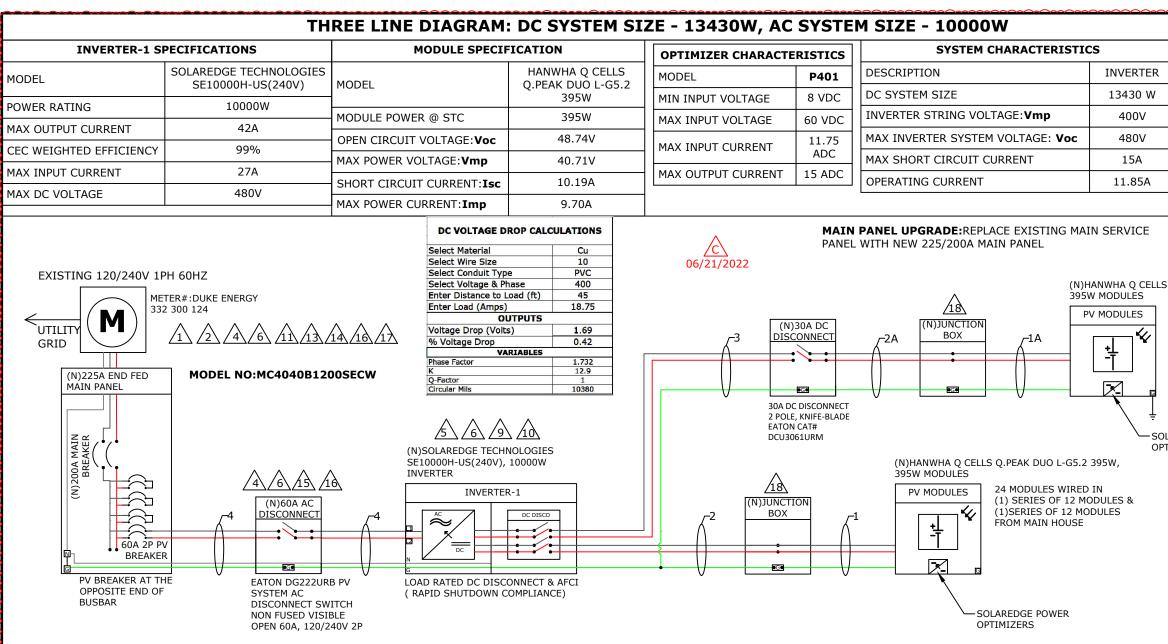
NOTE:

MAIN PANEL RATING:225A, MAIN BREAKER RATING:200A 120% RULE: (225AX1.2)-200A=70A =>ALLOWABLE BACKFEED IS 70A

OCPD CALCULATIONS:

INVERTER OVERCURRENT PROTECTION= INVERTER O/P I X CONTINUOUS LO. =42x1.25= 52.5A=>PV BREAKER = 60A ALLOWABLE BACKFEED 70A =>60A PV BREAKER THE DESIGNED INTERCONNECTION MEETS THE 705.12(B)(2) REQUIN

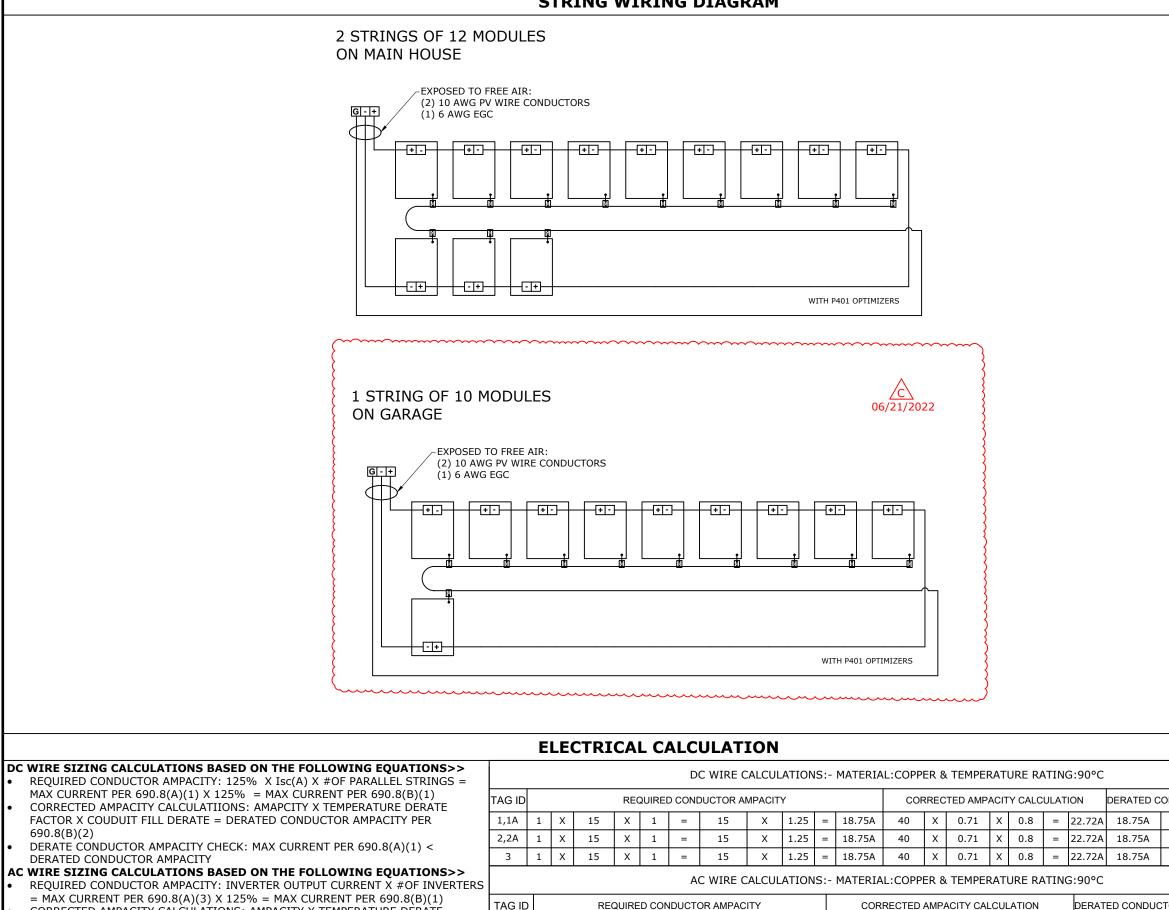
	ELECTRIC	AL NOTES		
Q.PEAK DUO L-G5.2 395W, 0 MODULES WIRED IN 1)SERIES OF 10 MODULES ROM GARAGE	 CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC 310.10(D). CONDUCTORS EXOPSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC 310.10(C). MAXIMUM DC/AC VOLTAGE DROP SHALL BE NO MORE THAN 2%. ALL CONDUCTORS SHALL BE IN CONDUT UNLESS OTHERWISE NOTED. BREAKER/FUSE SIZES PER NEC 240. AC EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC 250.122. AMBIENT TEMPERATURE CORRECTION FACTOR IS BASED ON NEC 690.31(A). AMBIENT TEMPERATURE ADJUSTMENT FACTOR IS BASED ON NEC 310.15(B)(2). MAX SYSTEM VOLTAGE CORRECTION IS PER NEC 690.7. CONDUCTORS ARE SIZED PER NEC TABLE 310.15(B)(16). 			
GROUND ROD 5/8" X 8' S.S. (N)GROUNDING ELECTRODE OLAREDGE POWER PTIMIZERS	ADDRESS: 525W MESA AZ,85210 LICENSE#: GC:84			
	ADDRESS:104 WOOE 28339 35.320226, -78.6677 APN: 060-597-020-2	43		
	AHJ:NC-TOWN OF ER			
	UTILITY:DUKE ENERG	ïΥ		
	PRN NUMBER:TPS-40	595		
AD(1.25)				
EMENTS.		Se quality matters		
	SINGLE LIN	E DIAGRAM		
	DRAFTED BY: KRISHNAN A.N. QC'ED BY: RAJ KUMAR K.B.	PAPER SIZE:17"X11"		
	SCALE:AS NOTED	REV:C		
	DATE:6/21/2022	E-01		



		CONDUIT	ΝΟΤΕ:				
TAG ID	CONDUIT SIZE	CONDUCTOR	NEUTRAL	GROUND	MAIN PANEL RATING:225A, MAIN BREAKER RATING:200A 120% RULE: (225AX1.2)-200A=70A =>ALLOWABLE BACKFEED IS 70A		
1	NONE	(4) 10AWG PV WIRE	NONE	(1) 6AWG BARE COPPER			
1A	NONE	(2) 10AWG PV WIRE	NONE	(1) 10AWG BARE COPPER	 OCPD CALCULATIONS: INVERTER OVERCURRENT PROTECTION= INVERTER O/P I X CONTINUOUS LOAD 		
2	3/4"EMT	(4) 10AWG THHN/THWN-2	NONE	(1) 10AWG THHN/THWN-2	=42x1.25= 52.5A=>PV BREAKER = 60A ALLOWABLE BACKFEED 70A =>60A PV BREAKER		
2A	3/4"EMT	(2) 10AWG THHN/THWN-2	NONE	(1) 10AWG THHN/THWN-2	THE DESIGNED INTERCONNECTION MEETS THE 705.12(B)(2) REQUIREN		
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			

}	ELECTRIC	AL NOTES
Q.PEAK DUO L-G5.2 395W, 10 MODULES WIRED IN (1)SERIES OF 10 MODULES FROM GARAGE	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 ER NEC 310.10(C). OLTAGE DROP SHALL %. SHALL BE IN CONDUIT NOTED. 22S PER NEC 240. OUNDING ER NEC 250.122. TURE CORRECTION I NEC 690.31(A). TURE ADJUSTMENT I NEC 310.15(B)(2). AGE CORRRECTION IS E SIZED PER NEC
GROUND ROD 5/8" X 8' S.S. (N)GROUNDING ELECTRODE LAREDGE POWER TIMIZERS	S 0 L ADDRESS: 525W MESA AZ,85210 LICENSE#: GC:84	
	ADDRESS:104 WOOD 28339	DALL DR, ERWIN, NC
	35.320226, -78.6677 APN: 060-597-020-2	
	35.320226, -78.6677 APN: 060-597-020-2 AHJ:NC-TOWN OF ER	18
	APN: 060-597-020-2	18 WIN
	APN: 060-597-020-2 AHJ:NC-TOWN OF ER	18 WIN
AD(1.25)	APN: 060-597-020-2 AHJ:NC-TOWN OF ER UTILITY:DUKE ENERG PRN NUMBER:TPS-40	18 WIN Y 595
AD(1.25) EMENTS.	APN: 060-597-020-2 AHJ:NC-TOWN OF ER UTILITY:DUKE ENERG PRN NUMBER:TPS-40	18 WIN
	APN: 060-597-020-2 AHJ:NC-TOWN OF ER UTILITY:DUKE ENERG PRN NUMBER:TPS-40	18 WIN 595 JMINE i
	APN: 060-597-020-2 AHJ:NC-TOWN OF ER UTILITY:DUKE ENERG PRN NUMBER:TPS-40	18 WIN 595 JMINE i se quality matters
	APN: 060-597-020-2 AHJ:NC-TOWN OF ER UTILITY:DUKE ENERG PRN NUMBER:TPS-40 PRN NUMBER:TPS-40 UTHREE LIN Because THREE LIN DRAFTED BY: KRISHNAN A.N. QC'ED BY:	18 WIN 595 IMINE i se quality matters E DIAGRAM

STRING WIRING DIAGRAM



42

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42

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1.25

=

52.50A

75 X 0.87

Х 1 =

65.25A

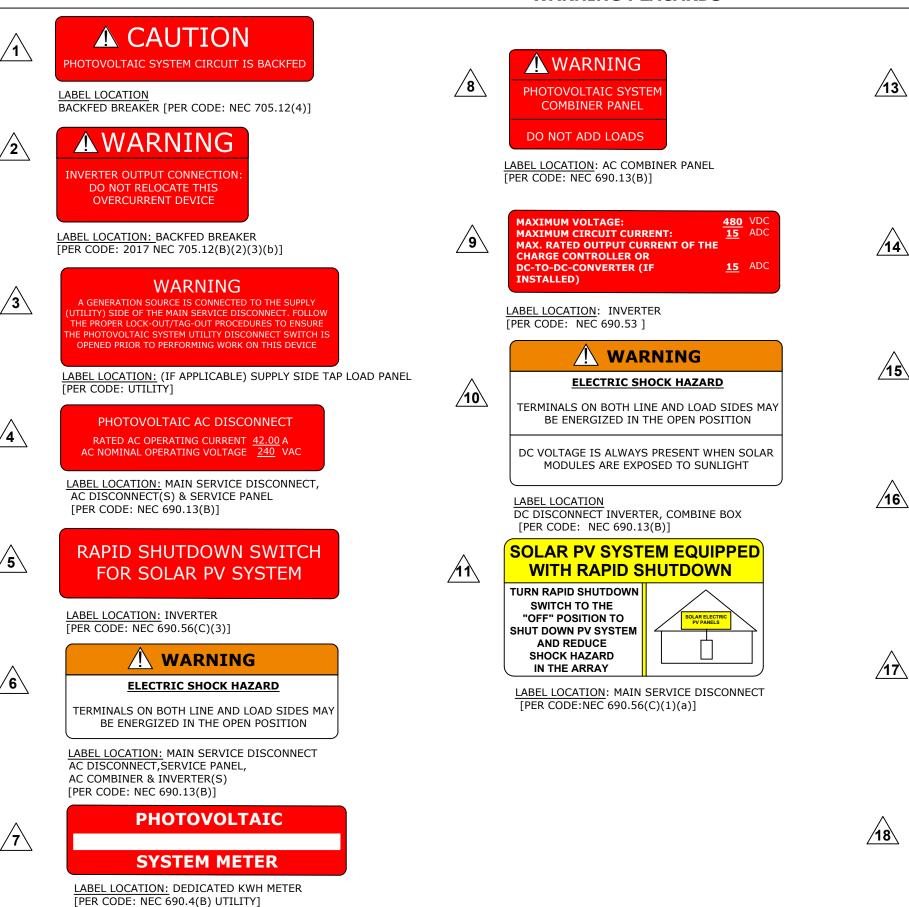
52.50A

CORRECTED AMPACITY CALCULATIONS: AMPACITY X TEMPERATURE DERATE FACTOR X CONDUIT FILL DERATE = DERATED CONDUCTOR AMPACITY PER 690.8(B)(2)

DERATED CONDUCTOR AMPACITY CHECK: MAX CURRENT PER 690.8(A)(3) < DERATED CONDUCTOR AMPACITY

		🛛 🕋 Т І	TAN	
		ADDRESS: 525W		
		MESA AZ,85210	4439 EC:U.34445	
		CUSTOMER TI	NFORMATION	
		NAME: PAUL ODOM		
		ADDRESS:104 WOOD 28339	DALL DR, ERWIN, NC	
		35.320226, -78.6677 APN: 060-597-020-2	243 18	
		AHJ:NC-TOWN OF ERWIN		
		UTILITY:DUKE ENERGY		
		PRN NUMBER:TPS-40	595	
		(A 11 1 1		
NDUCTOR	AMPACITY CHECK			
<	22.72A	Весаи	se quality matters	
<	22.72A		NG DIAGRAM &	
<	22.72A		CALCULATION	
		DRAFTED BY: KRISHNAN A.N.	PAPER SIZE:17"X11"	
	CITY CHECK	QC'ED BY: RAJ KUMAR K.B.		
<	65.25A	SCALE:AS NOTED	REV:C	
		DATE:6/21/2022	E-03	

WARNING PLACARDS



/2

∕3∖

∕4∖

∕5∖

∕6∖

/7\

[PER CODE: NEC 705.12(D)(7)] PHOTOVOLTAIC SYSTEM ∕15∖ UTLITY DISCONNECT SWITCH LABEL LOCATION :AC DISCONNECT [PER CODE:NEC 690.56(C)(3)] **WARNING** ∕16∖ **ELECTRIC SHOCK HAZARD** F GROUND FAULT IS INDICATED ALL NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED LABEL LOCATION AC DISCONNECT COMBINER BOX SERVICE METER [PER CODE: NEC 690.5(C)] PV SOLAR BREAKER /17 DO NOT RELOCATE THIS OVERCURRENT DEVICE LABEL LOCATION MAIN SERVICE DISCONNECT & SERVICE PANEL [PER CODE:NEC 705.12(B)(2)(3)(b)] ∕18∖ WARNING PHOTOVOLTAIC POWER SOURCE LABEL LOCATION DC CONDUIT NO MORE THAN 10FT [PER CODE: NEC 690.31(G)(3)]

DUAL POWER SOURCE

SECOND SOURCE IS

PHOTOVOLTAIC

[PER CODE: NEC705.12(B)(3)]

AC DISCONNECT, SERVICE PANEL, REVENUE METER & AC COMBINER

WARNING

INVERTER OUTPUT CONNECTION

DO NOT RELOCATE THIS

OVER-CURRENT DEVICE

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.

LABEL LOCATION : MAIN SERVICE DISCONNECT



LABEL LOCATION : (IF APPLICABLE) SERVICE PANEL







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.
SCALE: AS NOTED

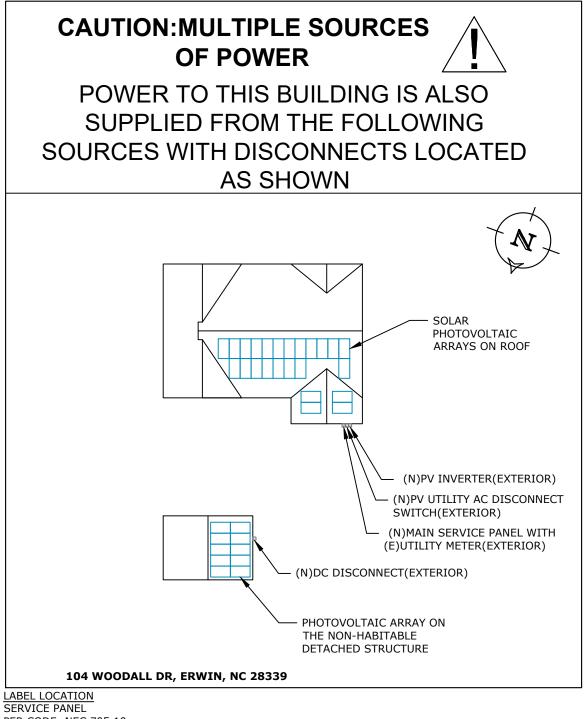
PAPER SIZE:17"X11"

SCALE: AS NOTED

DATE:6/21/2022

REV:C

PL-01



PER CODE: NEC 705.10

ALL PLACARDS SHALL BE OF WEATHER PROOF CONSTRUCTION, BACKGROUND ON ALL PLACARDS SHALL BE RED WITH WHITE LETTERING U.O.N. PLACARD SHALL BE MOUNTED DIRECTLY ON THE EXISTING UTILITY ELECTRICAL SERVICE.

FASTENERS APPROVED BY THE LOCAL JURISDICTION



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



DIRECTORY PLACARD

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

DATE:6/21/2022

PL-02

SAFETY PLANS-1

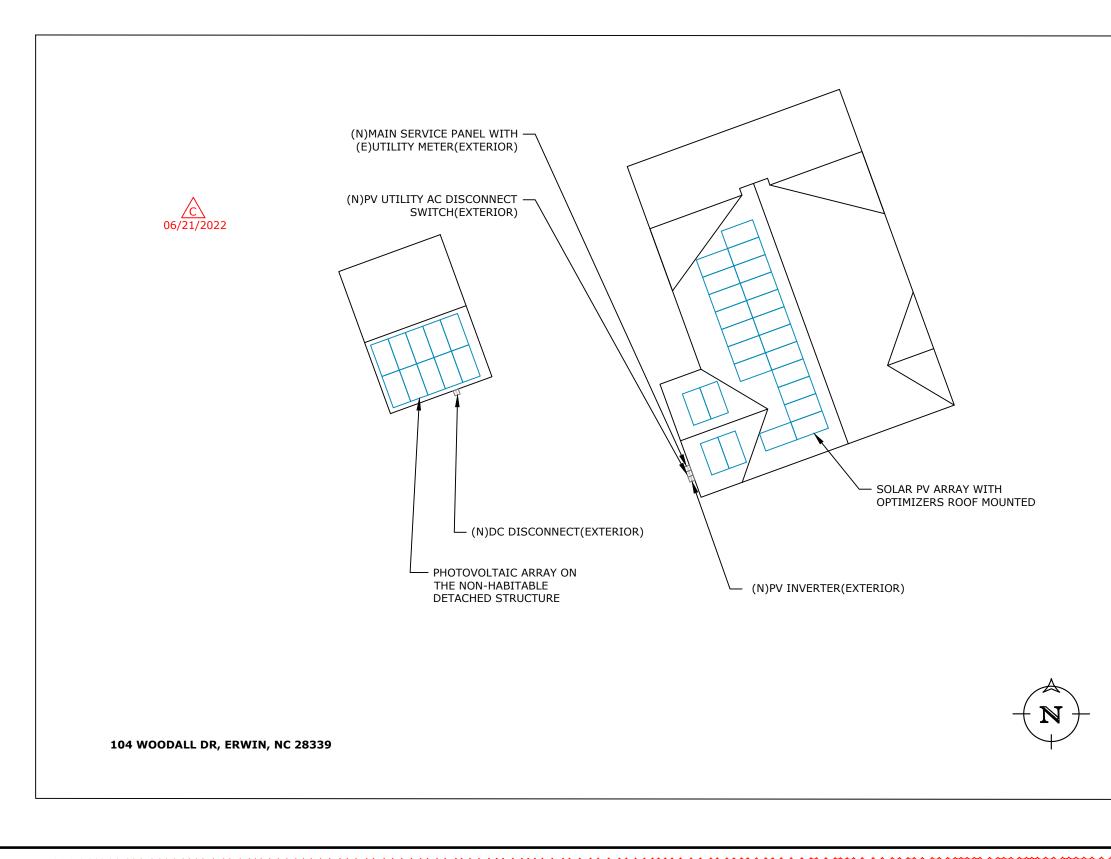
SAFETY PLANS

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:





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

AHJ:NC-TOWN OF ERWIN

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:C
DATE:6/21/2022	PL-03

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"
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PL-04

SPEC SHEET

QCELLS

Photon

QCELLS

est polycrystalline olar module 2014 Q.PRO-G2 235

¹ APT test conditions according to

² See data sheet on rear for further

QCELLS

IEC/TS 62804-1:2015.

information.

method B (-1500 V, 168 h)

PEAK DUO L-G5.2 380-395

Q.ANTUM SOLAR MODULE

powered by

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.

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 Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q[™].

EXTREME WEATHER RATING

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

~

-

1

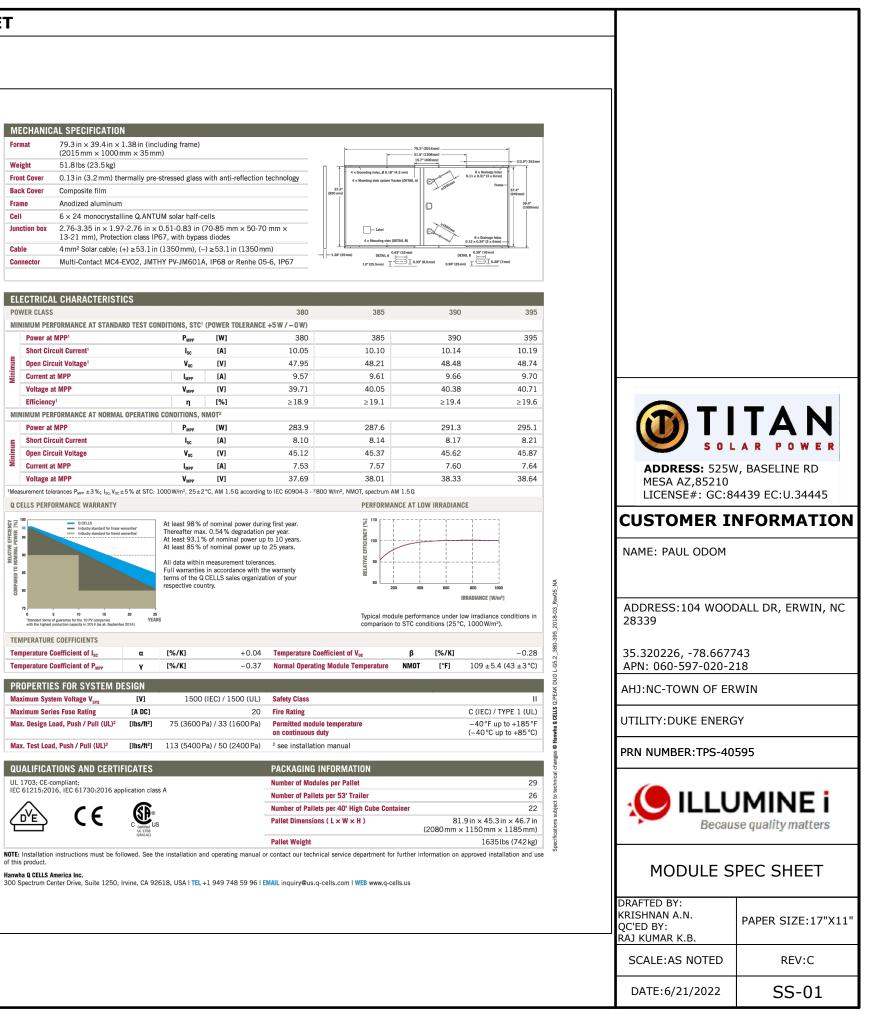
A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty².

THE IDEAL SOLUTION FOR:



Engineered in Germany



PU	WER CLASS				380	385		3
MI	NIMUM PERFORMANCE AT STANDA	ARD TEST CO	NDITIONS, STC ¹	(POWER TOLERAM	ICE +5 W / - 0 W)			
	Power at MPP ¹		P _{MPP}	[W]	380	385		3
_	Short Circuit Current ¹		I _{sc}	[A]	10.05	10.10		10
Minimum	Open Circuit Voltage ¹		V _{oc}	[V]	47.95	48.21		48
Μ	Current at MPP		I _{MPP}	[A]	9.57	9.61		9
	Voltage at MPP		V _{MPP}	[V]	39.71	40.05		40
	Efficiency ¹		η	[%]	≥18.9	≥19.1		≥1
MII	NIMUM PERFORMANCE AT NORMA	L OPERATING	-					
	Power at MPP		P _{MPP}	[W]	283.9	287.6		29
m	Short Circuit Current		I _{sc}	[A]	8.10	8.14		8
Minimum	Open Circuit Voltage		V _{oc}	[V]	45.12	45.37		45
2	Current at MPP		I _{MPP}	[A]	7.53	7.57		7
	Voltage at MPP asurement tolerances P _{MPP} ±3%; I _{SC} , V _{oc} :		V _{MPP}	[V]	37.69	38.01		38
[%]	CELLS PERFORMANCE WARRANTY		Thereafter ma	of nominal power d x. 0.54 % degradati % of nominal power	on per year.	PERFORMA		
			All data withir	of nominal power u measurement tole	rances.	06 EFFIC		
COMPARED TO NOMINAL	a b b c c d d d d d d d d d d d d d	20 25 20 25 VEAR	All data withir Full warranties terms of the Q respective cou	measurement tole in accordance with CELLS sales organ	rances. h the warranty	Typical mod comparison	lule perform	
COMPARED TO I	es an Jo S S S S S S S S S S S S S	YEAR ber 2014)	All data within Full warranties terms of the Q respective cou	n measurement tole s in accordance with CELLS sales organ ntry.	rances. In the warranty ization of your	⁸⁰ 20 Typical mod comparison	lule perform to STC con	ance und ditions (2
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Single Phase Inverter with HD-Wave Technology

for North America

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



Optimized installation with HD-Wave technology

- 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

solaredge.com

- / 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
 - Øptional: 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	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-XXXXBXX4							
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	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				Vdd
Nominal DC Input Voltage		8	180			400		Vdd
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27	30.5	Add
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-	27	Add
Max. Input Short Circuit Current				45				Add
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600ko Sensitivity				
Maximum Inverter Efficiency	99			g	9.2			%
CEC Weighted Efficiency				99			99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption				< 2.5				W

⁽¹⁾ For other regional settings please contact SolarEdge support
⁽²⁾ A higher current source may be used; the inverter will limit its input current to the values stated

NVERTERS



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

CUSTOMER INFORMATION

NAME: PAUL ODOM

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

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INVERTER SPEC SHEET

INVERTER SPEC SHEET			
DRAFTED BY: KRISHNAN A.N. QC'ED BY: RAJ KUMAR K.B.	PAPER SIZE:17"X11"		
SCALE:AS NOTED	REV:C		
DATE:6/21/2022	SS-02		

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

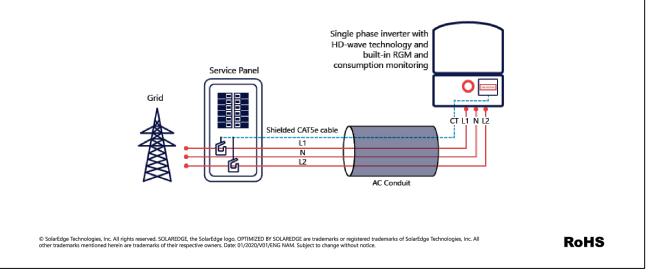
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

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 ⁽³⁾					
Consumption metering							
Inverter Commissioning	With the Se	tApp mobile application	on using Built-in Wi-	Fi Access Point for Lo	ocal Connection		
Rapid Shutdown - NEC 2014 and 2017 690.12		Automatic Rapi	d Shutdown upon A	C Grid Disconnect			
STANDARD COMPLIANCE							
Safety	UL174*	I, UL1741 SA, UL1699B,	CSA C22.2, Canadia	n AFCI according to	T.I.L. M-07		
Grid Connection Standards		IEEI	E1547, Rule 21, Rule	I4 (HI)			
Emissions			FCC Part 15 Class I	3			
INSTALLATION SPECIFICA	TIONS						
AC Output Conduit Size / AWG Range		1'' Maximum / 14-6 AW	/G		1'' Maximum	/14-4 AWG	
DC Input Conduit Size / # of Strings / AWG Range	1" Max	timum / 1-2 strings / 14	I-6 AWG		1" Maximum / 1-3 s	strings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)	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
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	1			
Operating Temperature Range		-4	10 to +140 / -40 to +	60(4)			°F/°C
Protection Rating		NEMA 4	4X (Inverter with Safe	ety Switch)			

^(a) Inverter with Revenue Grade Meter P/N: SExxxxH–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
⁽⁴⁾ 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





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INVERTER SPEC SHEET

SS-03

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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

solaredge.com

- 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			11			
OUTPUT DURING OPERATIO	N (POWER OPTIMIZE	R CONNECTED	TO OPERATING SO	AREDGE INVERT	ER)	
Maximum Output Current			15			Add
Maximum Output Voltage		60		8	5	Vdc
OUTPUT DURING STANDBY (P	OWER OPTIMIZER DI	SCONNECTED	FROM SOLAREDGE IN	VERTER OR SOLA	REDGE INVERTER	OFF
Safety Output Voltage per Power Optimizer			1 ± 0.1			Vdd
STANDARD COMPLIANCE						
Photovoltaic Rapid Shutdown System	N	IEC 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/l
Input Connector		MC4(3)		Single or dual MC4(3)(4)	MC4(3)	
Input Wire Length	0.16 / 0.52, 0.9 / 2.95(4)	0.16 / 0.52	0.16 / 0.52, 0.9 / 2.954	0.16 / 0.52	0.16 / 0.52	m /
Output Wire Type / Connector			Double Insulated / MC4			
Output Wire Length			1.2 / 3.9			m/
Operating Temperature Range ⁽⁵⁾			-40 to +85 / -40 to +185			°C/
Protection Rating			IP68 / NEMA6P			
Relative Humidity		0 - 100				

(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 ⁽⁶⁾⁽⁷⁾		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 [®] (6000 with SE7600-US - SE11400-US)	5250 ⁽⁸⁾	6000 ⁽⁹⁾	12750(10)	W
Decellel Strings of Different Los	aths or Orientations		``	(oc.		

Different Lengths or Or

(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 ≤ 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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OPTIMIZER SPEC SHEET

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

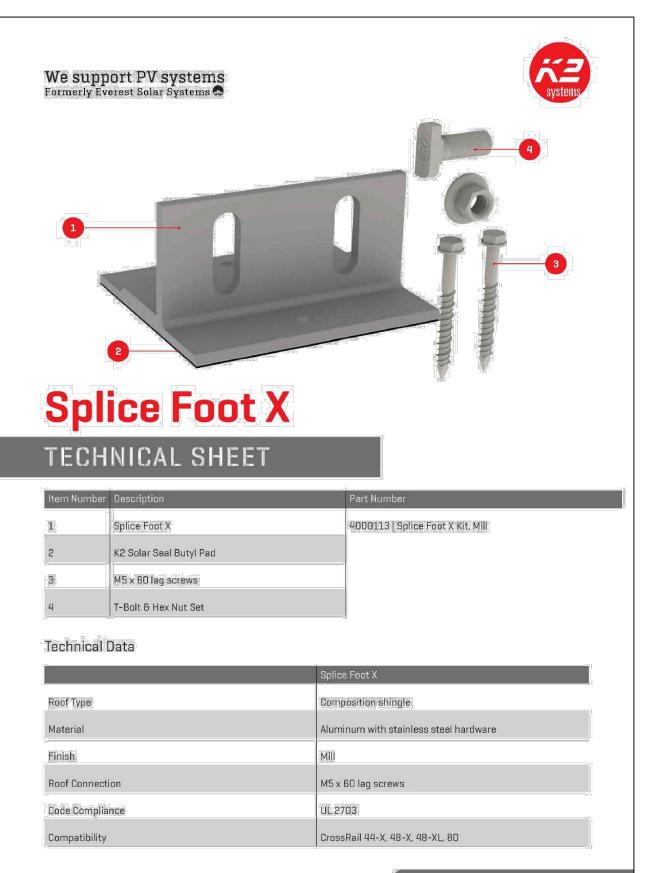
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SS-04



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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

DATE:6/21/2022

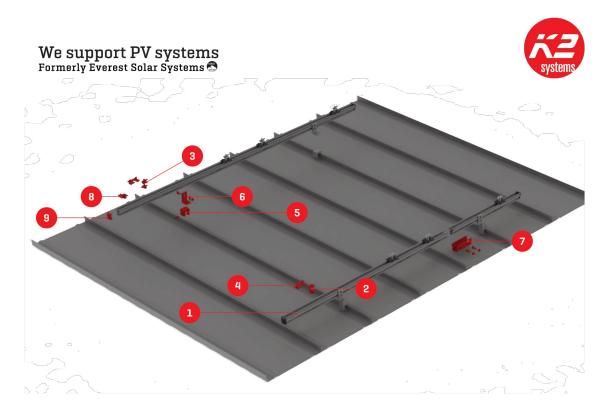


MOUNT SPEC SHEET

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

SS-05





CrossRail Shared Rail System

TECHNICAL SHEET

Item 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-H (mill), 4000602-H (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



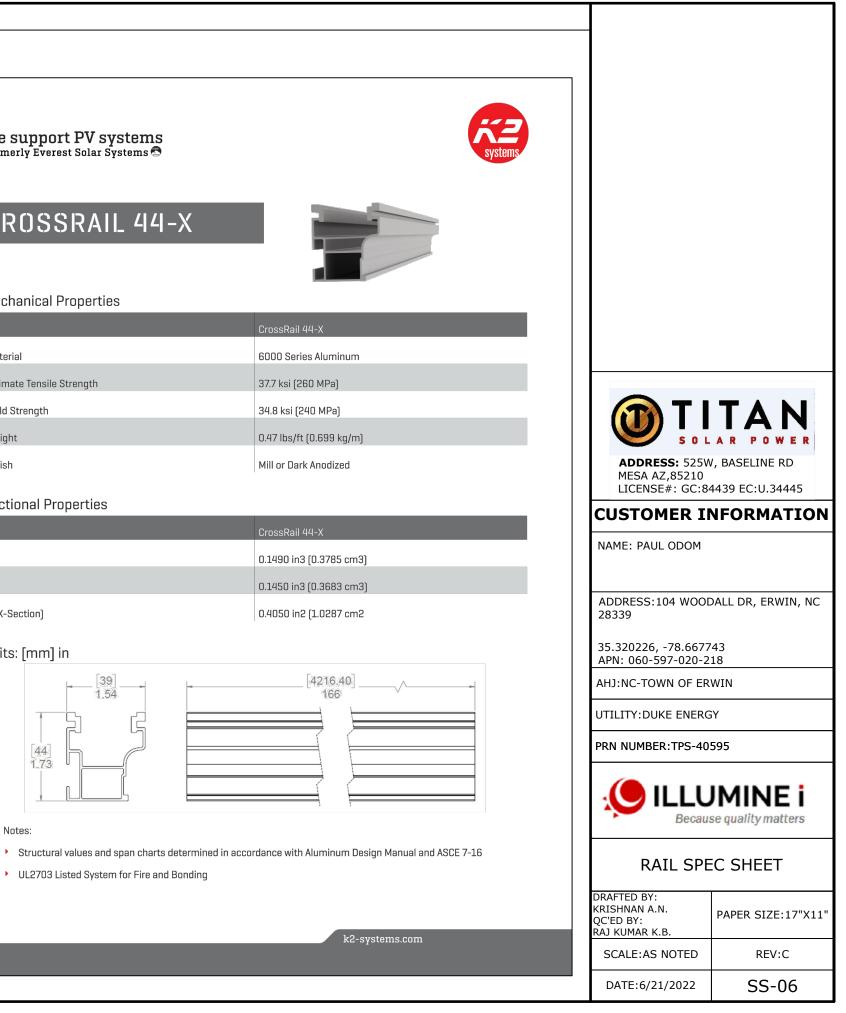
Mechanical Properties

	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:

- UL2703 Listed System for Fire and Bonding

	Rain	proof Combinati	on N	letering		
Catalog Number	CW	Enclosure Type 3I	3		1-○•	2
Panelboard Rating: 200 Amp 120/240 Volts ~, 1 phase, 3 w 208Y/120 Volts ~, 1 phase, 3 (Derived from 3 phase – 4 wird	ire wire	Rating: 225 Amps Max.	A2			
Meter Socket Rating: 200 Amps Continuous						
Suitable Only For Use As Service Equipment. For Overhead or Underground Service. Use 60/75° C Copper or Aluminum Conductor in Terminals A1, B1, A2, B2, N1, and N2.						
See breaker markings for wire size and torque requirements. Branch breakers limited to 3/0 AWG max.			A1 	B1		
Line terminals A and B have wire connectors installed for underground service entry as shown in the wiring diagram, location A1 and B1. For overhead entry reposition service bus per enclosed instruction sheet.						
Unused neutral branch termin grounding wires in the combir terminals.		sed to terminate equipment ated for equipment ground bar				SERVICE I DISCONNECT
General Information: Circuit breaker trip position is indicated by handle position midway between DN and OFF. To reset, move handle to OFF position then turn ON.			i L	ı N1		
For installation by Qualified Pe and/or the National Electrical		rdance with all local electrical coc	es	N2 OU N2=ECLKG2	ΗM	QPT GRD]
Any 80 Amp or above circuit breaker must be installed in the lowest position in the branch panel. All other positions are limited to 70 Amps maximum for the breaker types listed.		in	Terminal	Wire Size	Torque	
		·		A1, B1, A2, B2 N1	250kcmil - #4 250kcmil - #6	250 lb-in 275 lb. in.
			_	N2	#2 - #14	50 lb-in
<u>Accessories:</u> Filler Plate - ECQF3		If hub is required, use the catalog numbers listed below :		G1	1/0 - #14	120 lb-in
5 th Jaw Assembly - EMC5J		Trade size (in) Catalog number	_	Branch Breaker Terminals	See Markings c	n Breaker
Flush Rail Kit - FRK1 Meter Socket Jumper - ECJS Ground Bar - "ECGB" series		RX Type Hub (top endwall, surface units or 1 1/4" EC38597 1 1/2" EC38598		Neutral Bar	#10 - #14 CU #10 - #12 AL	20 lb-in 20 lb-in
Lug Kits:		2" EC38599 2 ½" EC38600			#8 #6	25 lb-in 35 lb-in
Catalog # Wire Range ECLK1-2 2/0 - #2	<i>Torque</i> 15 lb in	HC Type Hub (bottom endwall) 2" ECHC20	5	Ground Conductors	(2) or (3) #14 AWG	20 lb-in
ECLK2 2/0 - #4 ECLK3 300kcmil - #1	135 lb in 340 lb in	2 ½" ECHC25 3" ECHC30		Only	(2) #12-#10 AWG	20 lb-in
rating of 22,000 AMPS RMS s to be used for various short ci	ymmetrical, ⁻ rcuit current	hour meter not included in short of 120/240 VAC. The correct branch levels are listed in the tabulation b Siemens and must be of the corre	breaker elow. A	s and main/branc ny circuit breaker	h breaker series o installed, replace	combinations d or added in
Main Breaker				Then the maximu		
When the main breaker is:	And the branch breakers installed are Type: rating in RMS symmetrica amperes, 120/240V~is:					
QNRH	MP-T, MP-HT, MP-MT, MP-AT, MP-HAT, MP-GT, M MP-ET, MP-HET, MD-TR, MD-HTR (Murra QP, QPH, HQP, QAF, QPHF, QE, QEH, QNR, QNRH			ay) 22,000 H (Siemens)		
Important: Do not allow peter Petroleum based chemicals c	oleum base an cause de	d (hydrocarbon) sprays, chemicals gradation of electrical insulating m	aterials.	ts or any paint to		
Siemens Industry, Inc. Norcross, Georgia U.S.A. J2					4090	0965 0102 Rev.



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