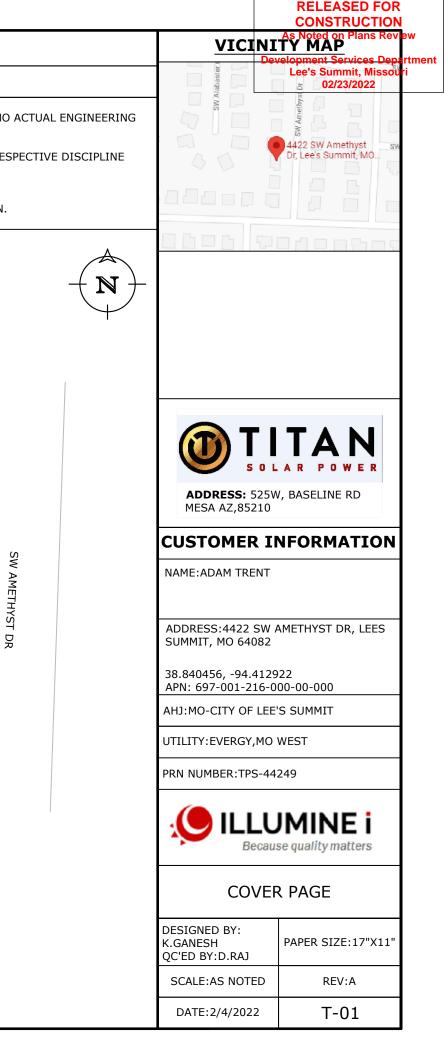
SI	HEET CATALOG	ADAM TRENT - 9.990kW DC, 7.600kW AC				
INDEX NO.	DESCRIPTION		SITE PLAN LAYOUT			
T-01	COVER PAGE		ENGINEERING SCOPE OF WORK			
S-01	MOUNTING DETAIL	APPLICABLE CODES	1. ILLUMINE INDUSTRIES INC. HAS ONLY PROVIDED DRAFTING SERVICES FOR THE PERMIT DRAWINGS. NO			
S-02	STRUCTURAL DETAIL	• ELECTRIC CODE:NEC 2017 • FIRE CODE:IFC 2018	WORK, ENGINEERING REVIEW OR ENGINEERING. APPROVAL HAS BEEN CONDUCTED BY ILLUMINE INDUSTRIES INC UNLESS NOTED OTHERWISE.			
E-01	SINGLE LINE DIAGRAM	BUILDING CODE:IBC 2018 RESIDENTIAL CODE:IRC 2018	2. WHEN A PROFESSIONAL ENGINEER APPROVES AND SEALS THE DESIGN FOR COMPONENTS OF THEIR RESP (STRUCTURAL/ELECTRICAL) SHOWN ON THESE PERMIT.			
E-02	THREE LINE DIAGRAM	• RESIDENTIAL CODE:IRC 2018	DRAWINGS, HE/SHE:			
E-03	STRING WIRING DIAGRAM		a. TAKES FULL DIRECT CONTROL OF THE ENGINEERED DESIGN. b. IS GIVEN ACCESS TO PERSONALLY SUPERVISE AND RECTIFY ANY ASPECT OF THE ENGINEERED DESIGN.			
PL-01	WARNING PLACARDS		c. HAS FULLY ACCEPTED RESPONSIBILITY FOR THE ENGINEERED DESIGN.			
PL-02	DIRECTORY PLACARD	(E) PV UTILITY METE	R(EXTERIOR) —			
PL-03	SAFETY PLANS-1					
PL-04	SAFETY PLANS-2	(N) PV UTILITY DISCONNECT SWITCH	(E) MAIN SERVICE PANEL(INTERIOR)			
SS	SPEC SHEET(S)	(N) PV INVERTER				
		CON	IDUIT RUN 3' FIRE SETBACK			
S	COPE OF WORK		118'-11"			
<u> </u>						
GENERAL SYSTI SYSTEM SIZE:	EM INFORMATION:					
9990W DC, 760	0W AC					
MODULES:	ONICS LG NEON2 BLACK					
LG370N1C-A6 3						
INVERTER: (1)SOLAREDGE	TECHNOLOGIES					
SE7600H-US(24						
OPTIMIZER: (27)SOLAREDG	E P401 POWER OPTIMIZER		WALK			
		71'-8"				
<u></u>	ENERAL NOTES	27'-10"				
	RE LISTED UNDER UL 1703 AND HE STANDARDS.					
2.INVERTERS A	ARE LISTED UNDER UL 1741 AND		DRIVE WAY			
	HE STANDARDS. ARE DIAGRAMMATIC, INDICATING					
GENERAL ARRA	NGEMENT OF THE PV SYSTEM AND					
4.WORKING CL	TE CONDITION MIGHT VARY. EARANCES AROUND THE NEW PV					
ELECTRICAL EQ	UIPMENT WILL BE MAINTAINED IN WITH NEC 110.26.					
5.ALL GROUND	WIRING CONNECTED TO THE MAIN					
SERVICE GROU	INDING IN MAIN SERVICE PANEL/ MENT.		8'-4"			
6.ALL CONDU	CTORS SHALL BE 600V, 75°C					
7.WHEN REQUI	PPER UNLESS OTHERWISE NOTED. RED, A LADDER SHALL BE IN PLACE	+/				
FOR INSPECTION REGULATIONS.	ON IN COMPLIANCE WITH OSHA					
8.THE SYSTEM	WILL NOT BE INTERCONNECTED BY	FENCE —/ PHOTOVOLTAIC	ARRAY ON THE ROOF GATE			
	TOR UNTIL APPROVAL FROM THE CTION AND/OR THE UTILITY.		PROPERTY LINE —/			
9.ROOF ACCES	S POINT SHALL BE LOCATED IN					
	O NOT REQUIRE THE PLACEMENT					
WINDOWS OR	DOORS, AND LOCATED AT STRONG					
ACCESS POIN	LDING CONSTRUCTION WHERE THE T DOES NOT CONFLICT WITH					
OVERHEAD OF WIRES OR SIGN	STRUCTIONS SUCH AS TREES,	SCALE:1/16" = 1'-0"				
10.PV ARRA	Y COMBINER/JUNCTION BOX					
	NSITION FROM ARRAY WIRING TO					
CONDUIT WIRI						



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 PÝ 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.

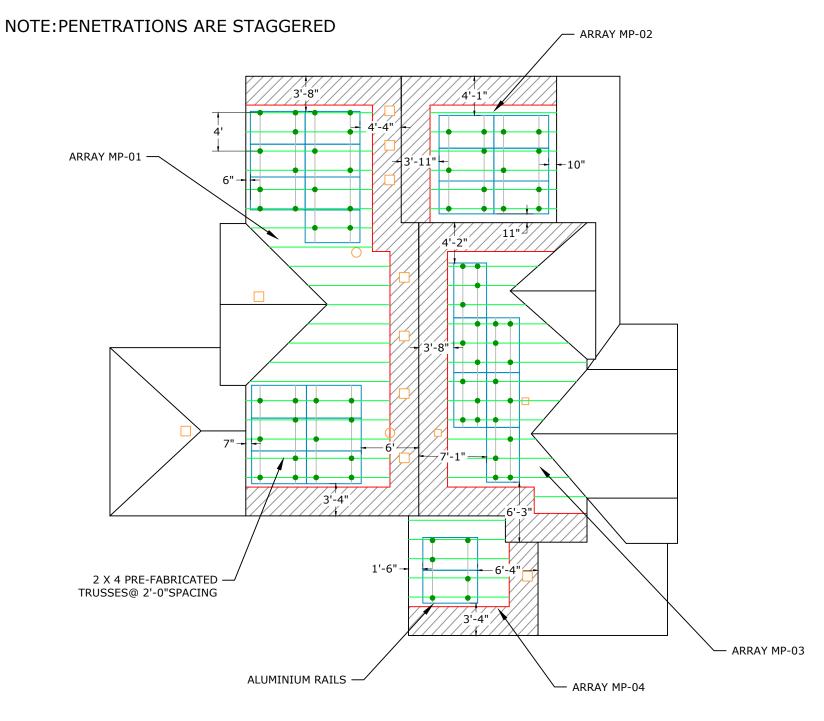
1204.2.2 EMERGENCY ESCAPE AND RESCUE OPENINGS. PANELS AND MODULES INSTALLED ON GROUP R-3 BUILDINGS SHALL NOT BE PLACED ON THE PORTION OF A ROOF THAT IS BELOW AN EMERGENCY ESCAPE AND RESCUE OPENING. A PATHWAY OF NOT LESS THAN 36 INCHES (914 MM) WIDE SHALL BE PROVIDED TO THE EMERGENCY ESCAPE AND RESCUE 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 SCALE:1"=10'-0"

	SITE INFORMATION - WIND SPEED: 109 MPH AND SNOW LOAD: 20 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	268°	26°	13	253.7	COMPOSITION SHINGLE	K2 SPLICE FOOT X	ATTIC	PRE-FABRICATED TRUSSES	2 X 4	2'-0"	4'-0"	1'-6"
MP-02	88°	26°	6	117.1	COMPOSITION SHINGLE	K2 SPLICE FOOT X	ATTIC	PRE-FABRICATED TRUSSES	2 X 4	2'-0"	4'-0"	1'-6"
MP-03	88°	26°	6	117.1	COMPOSITION SHINGLE	K2 SPLICE FOOT X	ATTIC	PRE-FABRICATED TRUSSES	2 X 4	2'-0"	4'-0"	1'-6"
MP-04	268°	26°	2	39.0	COMPOSITION SHINGLE	K2 SPLICE FOOT X	ATTIC	PRE-FABRICATED TRUSSES	2 X 4	2'-0"	4'-0"	1'-6"







ADDRESS: 525W, BASELINE RD MESA AZ,85210

CUSTOMER INFORMATION

NAME: ADAM TRENT

ADDRESS:4422 SW AMETHYST DR, LEES SUMMIT, MO 64082

38.840456, -94.412922 APN: 697-001-216-000-00-000

AHJ:MO-CITY OF LEE'S SUMMIT

UTILITY:EVERGY,MO WEST

PRN NUMBER: TPS-44249



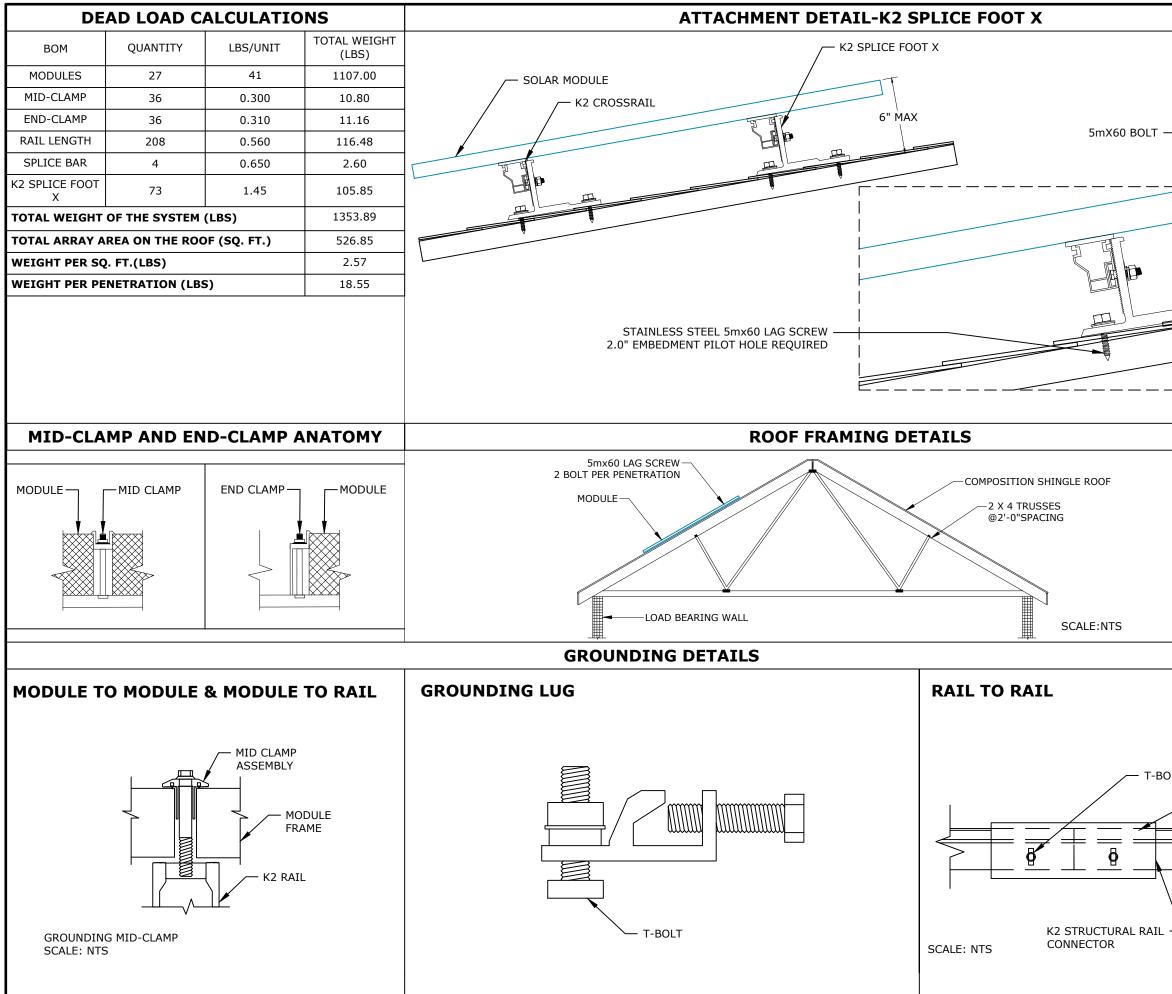
MOUNTING DETAIL

DESIGNED BY: (.GANESH QC'ED BY:D.RAJ	PAPER SIZE:17"X11
SCALE:AS NOTED	REV:A

S-01

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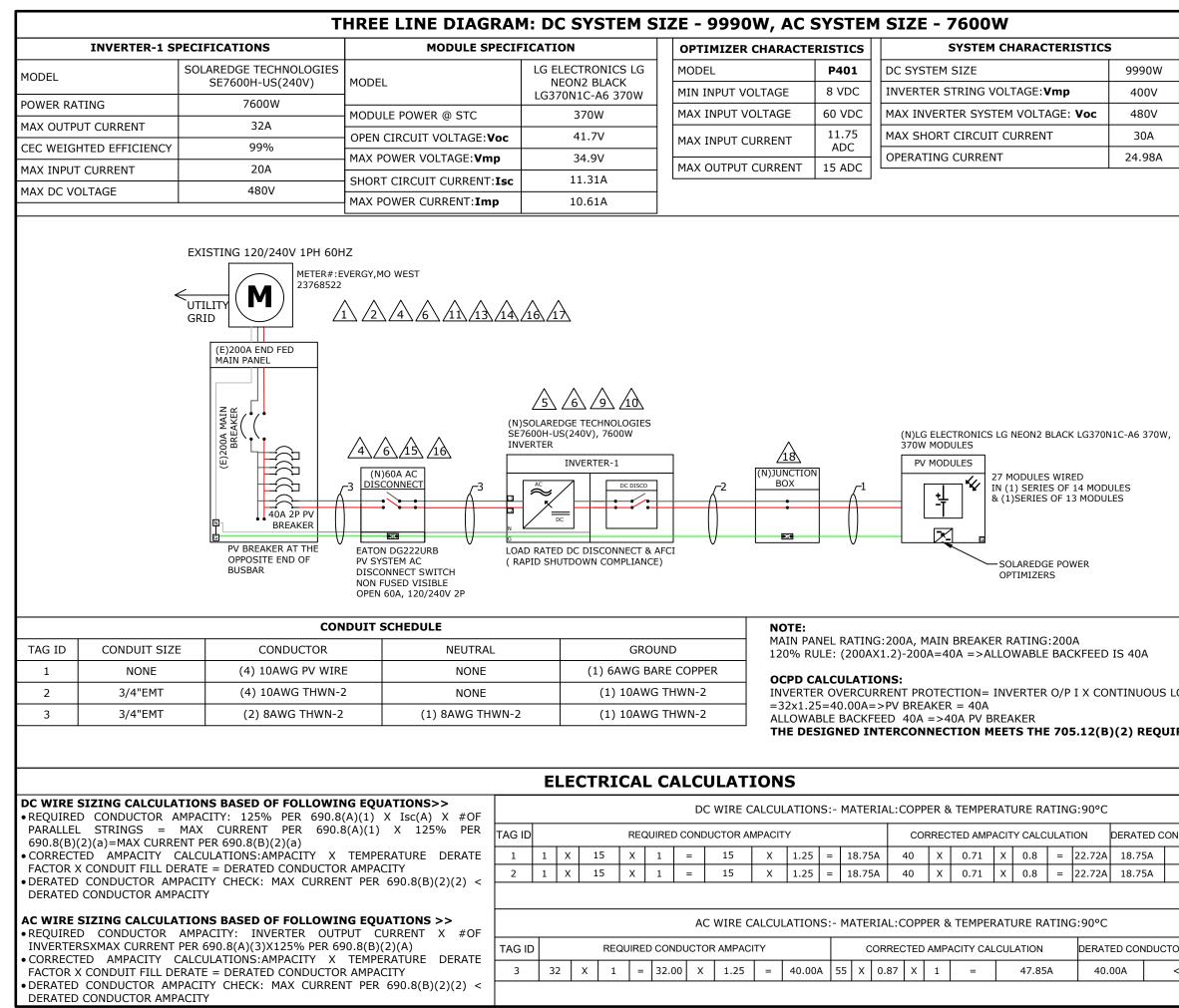
DATE:2/4/2022



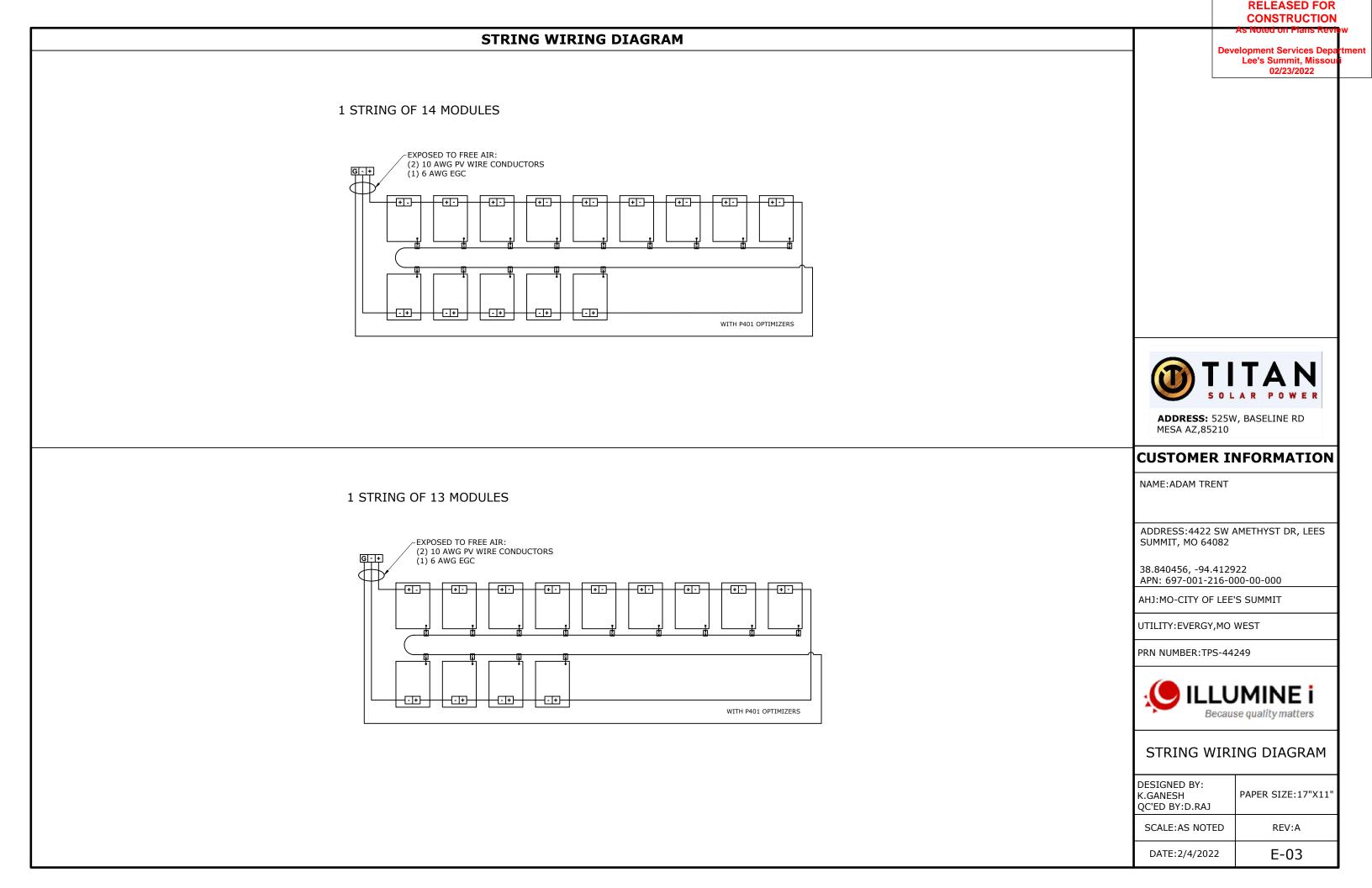
			SED FOR RUCTION	
	MODL	As Noted of JLES DAT		
	LG ELECTRON LG370	Development Se ICS LGebis Conta N1C-A6 37002/2	rvices Depa R lit ÀMissou 3/2022	rtment i
	MODULE DIMS	68.5"x41.02	"x1.57"	
	LAG SCREWS	5mx60x2.3": EMBEDM		
\neg	UPLIFT C	ALCULAT	IONS	
	UPLIFT	15805.5	LBS	
-+	PULL OUT STRENGTH	44895	LBS	
	POINT LOADING	15	LBS	
SCALE:NTS	S S	NT	ATION	
	38.840456, -94.4 APN: 697-001-21			
	AHJ:MO-CITY OF	LEE'S SUMMIT		
	UTILITY:EVERGY,	MO WEST		
	PRN NUMBER:TPS	-44249		
DLT SCREW		UMIN cause quality m		
	STRUCT	URAL DET	AIL	
	DESIGNED BY: K.GANESH QC'ED BY:D.RAJ	PAPER SIZ	'E:17"X11"	
	SCALE:AS NOTE	D REV	V:A	
	DATE:2/4/2022	s-	02	

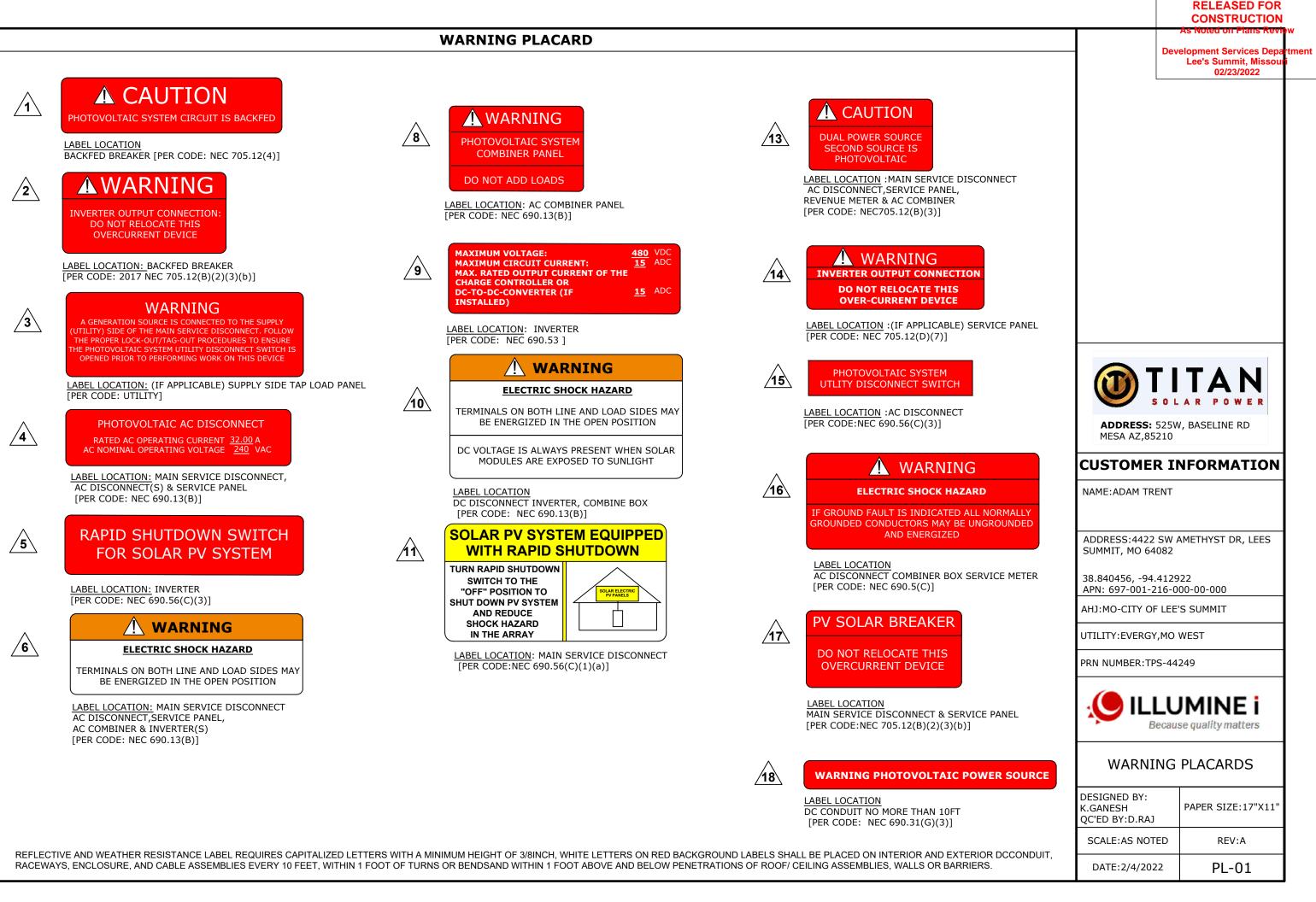
	INVERTER-1 SP	PECIFICATIONS	MODULE SPECI	FICATION	OPTIMIZER CHARACT	ERISTICS	SYSTEM CHARACTERIST	ICS
		SOLAREDGE TECHNOLOGIES		LG ELECTRONICS LG	MODEL	P401	DC SYSTEM SIZE	9990W
MODEL		SE7600H-US(240V)	MODEL	NEON2 BLACK LG370N1C-A6 370W	MIN INPUT VOLTAGE	8 VDC	INVERTER STRING VOLTAGE: Vmp	400V
POWER RAT	ING	7600W	MODULE POWER @ STC	370W	MAX INPUT VOLTAGE	60 VDC	MAX INVERTER SYSTEM VOLTAGE: Vo	
MAX OUTPU	IT CURRENT	32A	OPEN CIRCUIT VOLTAGE: Voc	41.7V		11.75	MAX SHORT CIRCUIT CURRENT	30A
CEC WEIGH	ITED EFFICIENCY	99%	MAX POWER VOLTAGE: Vmp	34.9V	MAX INPUT CURRENT	ADC	OPERATING CURRENT	24.98A
MAX INPUT	CURRENT	20A	SHORT CIRCUIT CURRENT: Isc		MAX OUTPUT CURRENT	15 ADC		
MAX DC VOL	LTAGE	480V	MAX POWER CURRENT:Imp	10.61A				
	UT GR	ILITY RID (E)200A END FED MAIN PANEL (E)200A END FED MAIN PANEL (E)2007 (I) (E)200A END FED (I) (E)200A END FED (I) (I) (I) (I) (I) (I) (I) (I) (I) (I)	(N)60A AC DISCONNECT	(N)SOLAREDGE TECHNOLC SE7600H-US(240V), 7600V INVERTER INVERTER-1	DGIES W		(N)LG ELECTRONICS LG NEON2 E 370W MODULES PV MODULES 27 MODULES IN (1) SERIE IN (1) SERIE	
		PV BREAKER AT THE OPPOSITE END OF BUSBAR	EATON DG222URB PV SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A,	LOAD RATED DC DISCONN (RAPID SHUTDOWN COMPL		•	solaredg OPTIMIZER	E POWER
		PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P	LOAD RATED DC DISCONN	JANCE)		SOLAREDG	E POWER
TAG ID	CONDUIT SIZE	PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A,	LOAD RATED DC DISCONN	LIANCE)	ANEL RATING	G:200A, MAIN BREAKER RATING:200A	E POWER S
TAG ID 1	CONDUIT SIZE NONE	PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL	JND JND J20%	ANEL RATING	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFE	E POWER S
-		PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CON CONDUCTOR	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL	LIANCE) IND IND IND IND IND IND IND IND INVER I	PANEL RATING RULE: (200A) CALCULATIG	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFE ONS: RRENT PROTECTION= INVERTER O/P I X	e power S EED IS 40A
1	NONE	PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CON CONDUCTOR (4) 10AWG PV WIRI	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P IDUIT SCHEDULE NEUTRAL E NONE 2 NONE	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL (1) 6AWG BA (1) 10AWG	LIANCE) IND IND IND IND INVER OCPD INVER	PANEL RATING RULE: (200A) CALCULATIG FER OVERCUF .25=40.00A=	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFE	e power S EED IS 40A
1 2	NONE 3/4"EMT	PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CON CON CON CON CON CON CON CON	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P IDUIT SCHEDULE NEUTRAL E NONE 2 NONE	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL (RAPID SHUTDOWN COMPL (1) 6AWG BA (1) 10AWG 2 (1) 10AWG	LIANCE) IND IND IND INVER INV	PANEL RATING RULE: (200A) CALCULATIG FER OVERCUF 25=40.00A= (ABLE BACKF	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFE ONS: RRENT PROTECTION= INVERTER O/P I X >PV BREAKER = 40A	E POWER S EED IS 40A CONTINUOUS LC
1 2 3	NONE 3/4"EMT 3/4"EMT	PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CON E CONDUCTOR (4) 10AWG PV WIRI (4) 10AWG THWN-2 (2) 8AWG THWN-2	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P IDUIT SCHEDULE E NONE 2 NONE (1) 8AWG THWN-	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL (RAPID SHUTDOWN COMPL (1) 6AWG BA (1) 10AWG 2 (1) 10AWG	LIANCE) IND IND IND IND INVER STHWN-2 STHWN-2 ALLOW	PANEL RATING RULE: (200A) CALCULATIG FER OVERCUF 25=40.00A= (ABLE BACKF	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFE ONS: RRENT PROTECTION= INVERTER O/P I X >PV BREAKER = 40A EED 40A =>40A PV BREAKER	E POWER S EED IS 40A CONTINUOUS LC
1 2 3 DC WIRE S • REQUIRED	NONE 3/4"EMT 3/4"EMT	PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CON E CONDUCTOR (4) 10AWG PV WIRI (4) 10AWG THWN-2 (2) 8AWG THWN-2 TIONS BASED OF FOLLOWIN MPACITY: 125% PER 690.80	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P IDUIT SCHEDULE E NONE 2 NONE 2 NONE (1) 8AWG THWN- (1) 8AWG THWN-	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL (RAPID SHUTDOWN COMPL (1) 6AWG BA (1) 10AWG 2 (1) 10AWG	LIANCE) JND RE COPPER 5 THWN-2 5 THWN-2 5 THWN-2 6 THWN-2 5 THWN-2 6 THWN-2 6 THWN-2 6 THWN-2 7	PANEL RATING RULE: (200A) CALCULATIG FER OVERCUF 25=40.00A= ABLE BACKF ESIGNED IN	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFE ONS: RRENT PROTECTION= INVERTER O/P I X >PV BREAKER = 40A EED 40A =>40A PV BREAKER	E POWER S EED IS 40A CONTINUOUS LC 2(B)(2) REQUIR
1 2 3 DC WIRE S • REQUIRED PARALLEL	NONE 3/4"EMT 3/4"EMT SIZING CALCULAT O CONDUCTOR A STRINGS =	PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CON E CONDUCTOR (4) 10AWG PV WIRI (4) 10AWG THWN-2 (2) 8AWG THWN-2	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P IDUIT SCHEDULE E NONE 2 NONE 2 NONE (1) 8AWG THWN- (1) 8AWG THWN-	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL (1) 6AWG BA (1) 10AWG 2 (1) 10AWG ELECTRICAL	LIANCE) IND IND IND INVER I 20% INVER I 20% INVER INV	PANEL RATING RULE: (200A) CALCULATIG FER OVERCUF (25=40.00A= (ABLE BACKF) ESIGNED IN ONS:- MATER	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFE ONS: RRENT PROTECTION= INVERTER O/P I X >PV BREAKER = 40A EED 40A =>40A PV BREAKER ITERCONNECTION MEETS THE 705.12 RIAL:COPPER & TEMPERATURE RATING:90 CORRECTED AMPACITY CALCULATION	E POWER S EED IS 40A CONTINUOUS LC 2(B)(2) REQUIR
1 2 3 DC WIRE S • REQUIRED PARALLEL 690.8(B)(2 • CORRECTE FACTOR X • DERATED	NONE 3/4"EMT 3/4"EMT 3/4"EMT SIZING CALCULA O CONDUCTOR A STRINGS = 2)(a)=MAX CURRE ED AMPACITY C CONDUIT FILL DE	PV BREAKER AT THE OPPOSITE END OF BUSBAR CON E CONDUCTOR (4) 10AWG PV WIRI (4) 10AWG THWN-2 (2) 8AWG THWN-2 (2) 8AWG THWN-2 MPACITY: 125% PER 690.8(MAX CURRENT PER 690.8(B)(2)(a) CALCULATIONS:AMPACITY X CALCULATIONS:AMPACITY X CALCULATIONS:AMPACITY X	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P IDUIT SCHEDULE NONE 2 NONE 2 NONE 3 (1) 8AWG THWN- 3 (1) 8AWG THWN- 3 (1) 8AWG THWN- 3 (1) X ISC(A) X #OF 3 (A) (1) X ISC(A) X #	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL (RAPID SHUTDOWN COMPL (1) 6AWG BA (1) 10AWG 2 (1) 10AWG 2 (1) 10AWG 5 ID REQUINE 5 ID REQU	LIANCE) IND IND IRE COPPER THWN-2 THWN-2 CALCULATIONS DC WIRE CALCULATI	PANEL RATING RULE: (200A) CALCULATIG FER OVERCUF .25=40.00A= (ABLE BACKF) ESIGNED IN ONS:- MATER .5<=	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFE ONS: RRENT PROTECTION= INVERTER O/P I X >>PV BREAKER = 40A EED 40A =>40A PV BREAKER ITERCONNECTION MEETS THE 705.12 RIAL:COPPER & TEMPERATURE RATING:90 CORRECTED AMPACITY CALCULATION A 40 X 0.71 X 0.8 = 22.1	E POWER S EED IS 40A CONTINUOUS LC 2(B)(2) REQUIR
1 2 3 DC WIRE S • REQUIRED PARALLEL 690.8(B)(2 • CORRECTE FACTOR X • DERATED DERATED	NONE 3/4"EMT 3/4"EMT 3/4"EMT D CONDUCTOR A STRINGS = 2)(a) = MAX CURRE ED AMPACITY C CONDUIT FILL DE CONDUCTOR AMP/	PV BREAKER AT THE OPPOSITE END OF BUSBAR CON E CONDUCTOR (4) 10AWG PV WIRI (4) 10AWG THWN-2 (2) 8AWG THWN-2 (2) 8AWG THWN-2 MPACITY: 125% PER 690.8(MAX CURRENT PER 690.8(B)(2)(a) CALCULATIONS:AMPACITY X CALCULATIONS:AMPACITY X CALCULATIONS:AMPACITY X	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P IDUIT SCHEDULE NONE 2 NONE 2 NONE 3 (1) 8AWG THWN- 3 (1) 8AWG THWN- 3 (1) X ISC(A) X #OF 3 (A)(1) X ISC(A) X #OF 3 (A)(1) X 125% PER TEMPERATURE DERATE 2 AMPACITY 11 PER 690.8(B)(2)(2) <	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL (RAPID SHUTDOWN COMPL (1) 6AWG BA (1) 10AWG 2 (1) 10AWG 2 (1) 10AWG 5 ID REQUINE 5 ID REQU	LIANCE) JIND NOTE: JND MAIN F RE COPPER OCPD THWN-2 INVER: THWN-2 ALLOW THE D THE D CALCULATIONS DC WIRE CALCULATI IRED CONDUCTOR AMPACITY 1 = 1 = 1 =	PANEL RATING RULE: (200A) CALCULATIG FER OVERCUF (25=40.00A= (ABLE BACKF) ESIGNED IN ONS:- MATER	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFE ONS: RRENT PROTECTION= INVERTER O/P I X >PV BREAKER = 40A EED 40A =>40A PV BREAKER ITERCONNECTION MEETS THE 705.12 RIAL: COPPER & TEMPERATURE RATING:90 CORRECTED AMPACITY CALCULATION A 40 X 0.71 X 0.8 = 22.2 A 40 X 0.71 X 0.8 = 22.2	E POWER S EED IS 40A CONTINUOUS LC 2(B)(2) REQUIR D°C DERATED CONE 72A 18.75A 72A 18.75A
1 2 3 DC WIRE S • REQUIRED PARALLEL 690.8(B)(2 • CORRECTE FACTOR X • DERATED DERATED DERATED (AC WIRE S • REQUIRED	NONE 3/4"EMT 3/4"EMT 3/4"EMT Divide Conductor A STRINGS = 2)(a)=MAX CURRE CONDUCTOR AMI CONDUCTOR	PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CON E CONDUCTOR (4) 10AWG PV WIRI (4) 10AWG THWN-2 (2) 8AWG THWN-2 (2) 8AWG THWN-2 MPACITY: 125% PER 690.8(B) MAX CURRENT PER 690.8(B)(2)(a) CALCULATIONS: AMPACITY X RATE = DERATED CONDUCTOF PACITY CHECK: MAX CURREN ACITY TIONS BASED OF FOLLOWIN MPACITY: 125% PER 690.8(B)(2)(a) CALCULATIONS: AMPACITY X RATE = DERATED CONDUCTOF PACITY CHECK: MAX CURREN ACITY TIONS BASED OF FOLLOWIN AMPACITY: INVERTER OUTI	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P IDUIT SCHEDULE NEUTRAL E NONE 2 NONE 2 NONE 3 (1) 8AWG THWN- 3 (1) 8AWG THWN- 3 (1) X ISC(A) X #OF 3 (A) (1) X ISC(A) X #OF 3 (A) (1) X 125% PER TEMPERATURE DERATE 1 R AMPACITY IT PER 690.8(B)(2)(2) < 2 NG EQUATIONS >> PUT CURRENT X #OF	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL (RAPID SHUTDOWN COMPL (1) 6AWG BA (1) 10AWG 2 (1) 10AWG 2 (1) 10AWG 2 (1) 10AWG 2 (1) 10AWG 2 (1) 10AWG	LIANCE) IND IRE COPPER THWN-2 THWN-2 THWN-2 CALCULATIONS CALCULATIONS DC WIRE CALCULATI IRED CONDUCTOR AMPACITY I = 15 X 1.2 AC WIRE CALCULATI	PANEL RATING RULE: (200A) CALCULATIG FER OVERCUF (25=40.00A= (ABLE BACKF ESIGNED IN ONS:- MATER (5) = 18.75, (5) = 18.75, (5) = 18.75, (5) = 18.75,	G: 200A, MAIN BREAKER RATING: 200A X1.2)-200A=40A =>ALLOWABLE BACKFE ONS: RRENT PROTECTION= INVERTER O/P I X >PV BREAKER = 40A EED 40A =>40A PV BREAKER ITERCONNECTION MEETS THE 705.12 RIAL: COPPER & TEMPERATURE RATING: 90 CORRECTED AMPACITY CALCULATION A 40 X 0.71 X 0.8 = 22.3 A 40 X 0.71 X 0.8 = 22.3 RIAL: COPPER & TEMPERATURE RATING: 90	E POWER S EED IS 40A CONTINUOUS LC 2(B)(2) REQUIR D°C DERATED CONE 72A 18.75A 72A 18.75A 72A 18.75A
1 2 3 DC WIRE S • REQUIRED PARALLEL 690.8(B)(2 • CORRECTE FACTOR X • DERATED DERATED DERATED DERATED CORRECTE • REQUIRED INVERTERS • CORRECTE	NONE 3/4"EMT 3/4"EMT 3/4"EMT Divide Conductor A STRINGS = 2)(a)=MAX CURRE CONDUCTOR AMI CONDUCTOR CALCULA CONDUCTOR CALCULA	PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CON E CONDUCTOR (4) 10AWG PV WIRI (4) 10AWG THWN-2 (2) 8AWG THWN-2 (2) 8AWG THWN-2 MPACITY: 125% PER 690.8 MAX CURRENT PER 690.8 MAX CURRENT PER 690.8 CONDUCTOR ALCULATIONS:AMPACITY X RATE = DERATED CONDUCTOF PACITY CHECK: MAX CURREN ACITY TIONS BASED OF FOLLOWIN	SYSTEM AC DISCONNECT SWITCH NON FUSED VISIBLE OPEN 60A, 120/240V 2P IDUIT SCHEDULE NEUTRAL E NONE 2 NONE 2 NONE 3 (1) 8AWG THWN- 3 (1) 8AWG THWN- 3 (1) 8AWG THWN- 3 (1) X ISC(A) X #OF 3 (A)(1) X ISC(A) X #OF 3 (A)(1) X 125% PER TEMPERATURE DERATE 1 AMPACITY 1 PER 690.8(B)(2)(2) < NG EQUATIONS >> PUT CURRENT X #OF 20.8(B)(2)(A) TAG	LOAD RATED DC DISCONNI (RAPID SHUTDOWN COMPL (RAPID SHUTDOWN COMPL (1) 6AWG BA (1) 10AWG 2 (1) 10AWG 2 (1) 10AWG 2 (1) 10AWG 5 ID REQUIRED 6 ID REQUIRED 0	LIANCE) INTER JND IRE COPPER THWN-2 THWN-2 THWN-2 CALCULATIONS DC WIRE CALCULATI IRED CONDUCTOR AMPACITY I = 15 X 1.2 AC WIRE CALCULATI CONDUCTOR AMPACITY	PANEL RATING RULE: (200A) CALCULATIG FER OVERCUF (25=40.00A= (ABLE BACKF ESIGNED IN ONS:- MATER (5) = 18.75, (5) = 18.75, (5) = 18.75, (5) = 18.75,	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFE ONS: RRENT PROTECTION= INVERTER O/P I X >>PV BREAKER = 40A EED 40A =>40A PV BREAKER ITERCONNECTION MEETS THE 705.12 RIAL:COPPER & TEMPERATURE RATING:90 CORRECTED AMPACITY CALCULATION A 40 X 0.71 X 0.8 = 22.3 A 40 X 0.71 X 0.8 = 22.3 A 40 X 0.71 X 0.8 = 22.3 CORRECTED AMPACITY CALCULATION DERECTED AMPACITY CALCULATION DE	E POWER S EED IS 40A CONTINUOUS LC 2(B)(2) REQUIR D°C DERATED CONE 72A 18.75A 72A 18.75A

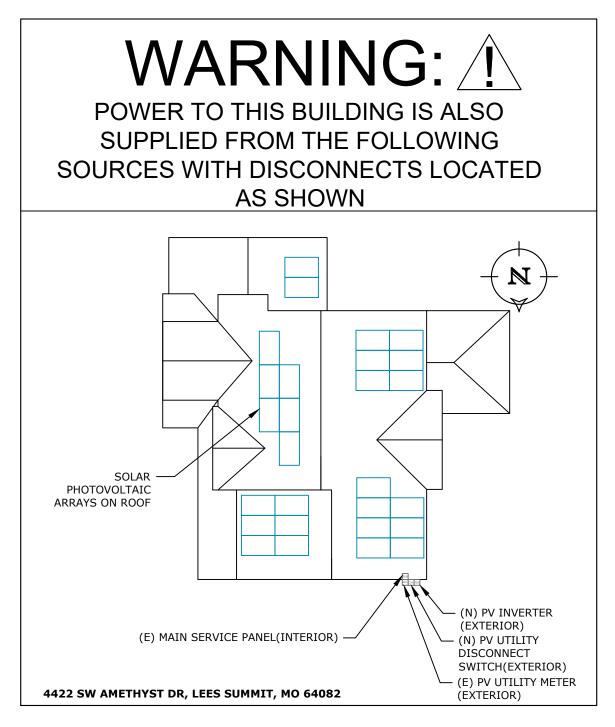
		RELEASED FOR CONSTRUCTION			
	ELECTRIC	As Noted on Plans Review CAL NOTES			
	1.CONDUCTORS EX SHALL BE LIST RESISTANT PER NEC 2.CONDUCTORS E LOCATIONS SHALL IN WET LOCATIONS 3.MAXIMUM DC/AC BE NO MORE THAN 2 4.ALL CONDUCTORS UNLESS OTHERWISE 5.BREAKER/FUSE S NEC 240.6 CODE SEC 6.AC GROUND	POSED STONIELINGENER POSED STONIELINGENER 310.10(D). EXPOSED TO WET BE SUITABLE FOR USE PER NEC 310.10(C). VOLTAGE DROP SHALL %. SHALL BE IN CONDUIT NOTED. IZES CONFORMS TO CTION. PING ELECTRODE			
	FACTOR IS BASED O 8.AMBIENT TEMPEL FACTOR IS BASED O 9.MAX. SYSTEM VOL PER NEC 690.7.	RATURE CORRECTION N NEC 690.31(C). RATURE ADJUSTMENT N NEC 310.15(B)(2). .TAGE CORRECTION IS RE SIZED PER WIRE			
46 370W,	ADDRESS: 525V MESA AZ,85210	A R POWER V, BASELINE RD			
	CUSTOMER I	NFORMATION			
	NAME:ADAM TRENT				
	ADDRESS:4422 SW AMETHYST DR, LEES SUMMIT, MO 64082				
	38.840456, -94.412922 APN: 697-001-216-000-00-000				
OAD(1.25)	AHJ:MO-CITY OF LEE	'S SUMMIT			
REMENTS.	UTILITY:EVERGY,MO	WEST			
	PRN NUMBER:TPS-44249				
IDUCTOR AMPACITY CHECK		JMINE i se quality matters			
< 22.72A < 22.72A	SINGLE LIN	IE DIAGRAM			
	DESIGNED BY: K.GANESH QC'ED BY:D.RAJ	PAPER SIZE:17"X11"			
OR AMPACITY CHECK	SCALE: AS NOTED	REV:A			
	DATE:2/4/2022	E-01			



			RELEASED FOR CONSTRUCTION			
		БІЕСТВІ	AS NOTED OF Plans Review CAL NOTES			
		De De	evelopment Services Department			
-		SHALL BE LIS RESISTANT PER NE 2.CONDUCTORS LOCATIONS SHALL IN WET LOCATIONS 3.MAXIMUM DC/AC BE NO MORE THAN 4.ALL CONDUCTORS UNLESS OTHERWIS 5.BREAKER/FUSE NEC 240.6 CODE SE 6.AC GROUN	EXPOSED TO WET BE SUITABLE FOR USE PER NEC 310.10(C). VOLTAGE DROP SHALL 2%. S SHALL BE IN CONDUIT E NOTED. SIZES CONFORMS TO ECTION. DING ELECTRODE			
		FACTOR IS BASED (8.AMBIENT TEMP FACTOR IS BASED (9.MAX. SYSTEM VC PER NEC 690.7.	ERATURE CORRECTION ON NEC 690.31(C). ERATURE ADJUSTMENT ON NEC 310.15(B)(2). DLTAGE CORRECTION IS ARE SIZED PER WIRE			
		S 0				
		MESA AZ,85210	W, BASELINE RD			
		NAME:ADAM TRENT				
		ADDRESS:4422 SW AMETHYST DR, LEES SUMMIT, MO 64082				
		38.840456, -94.412922 APN: 697-001-216-000-00-000				
OAD(1.2	25)	AHJ:MO-CITY OF LEE'S SUMMIT				
REMEN	rs.	UTILITY:EVERGY,MC	D WEST			
		PRN NUMBER:TPS-44249				
IDUCTOR	AMPACITY CHECK		JMINE i			
< <	22.72A 22.72A	SINGLE LI	NE DIAGRAM			
		DESIGNED BY: K.GANESH QC'ED BY:D.RAJ	PAPER SIZE:17"X11"			
	AT 854	SCALE:AS NOTED	REV:A			
<	47.85A	DATE:2/4/2022	E-02			

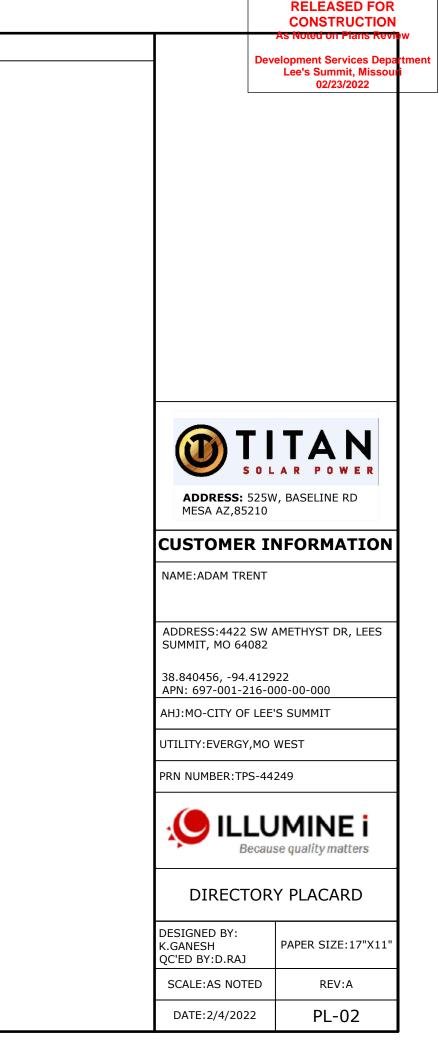






ALL PLACARDS SHALL BE OF WEATHER PROOF CONSTRUCTION, BACKGROUND ON ALL PLACARDS SHALL BE RED WITH WHITE LETTERING U.O.N. PLACARD SHALL BE MOUNTED DIRECTLY ON THE EXISTING UTILITY ELECTRICAL SERVICE.

FASTENERS APPROVED BY THE LOCAL JURISDICTION



SAFETY PLANS-1

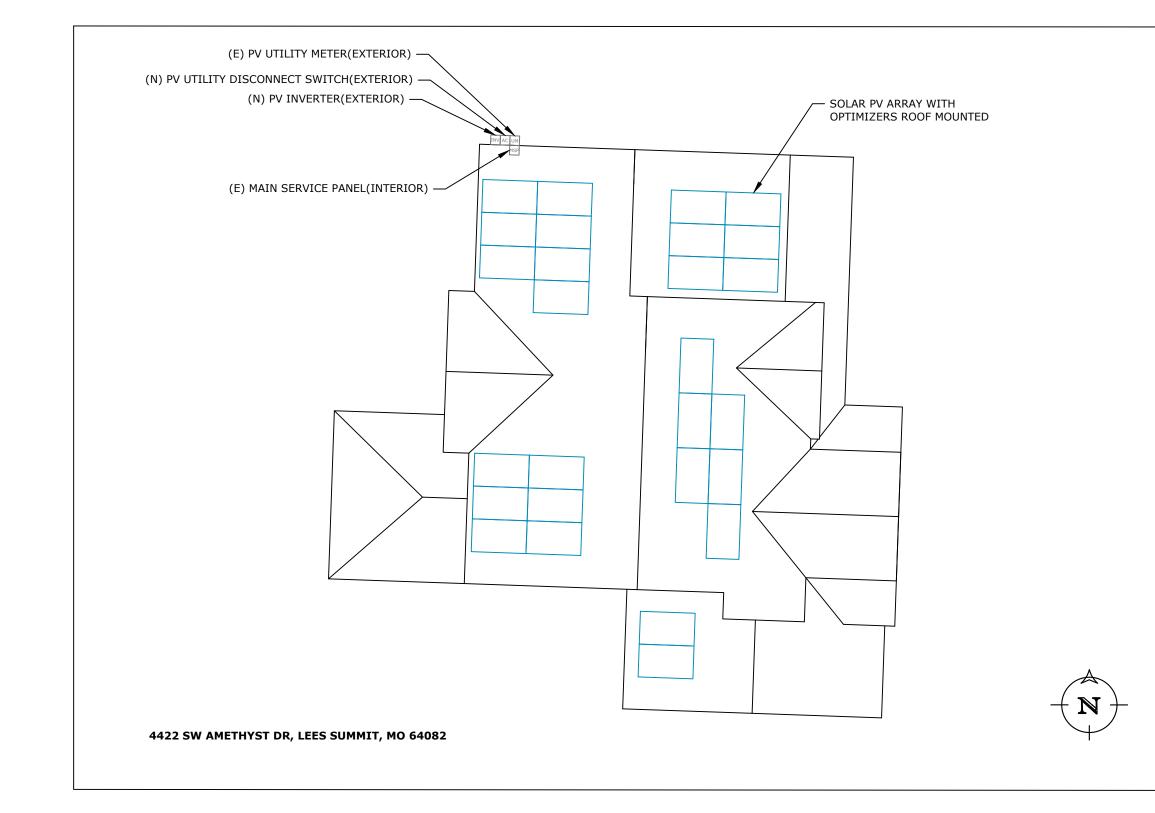
SAFETY PLANS

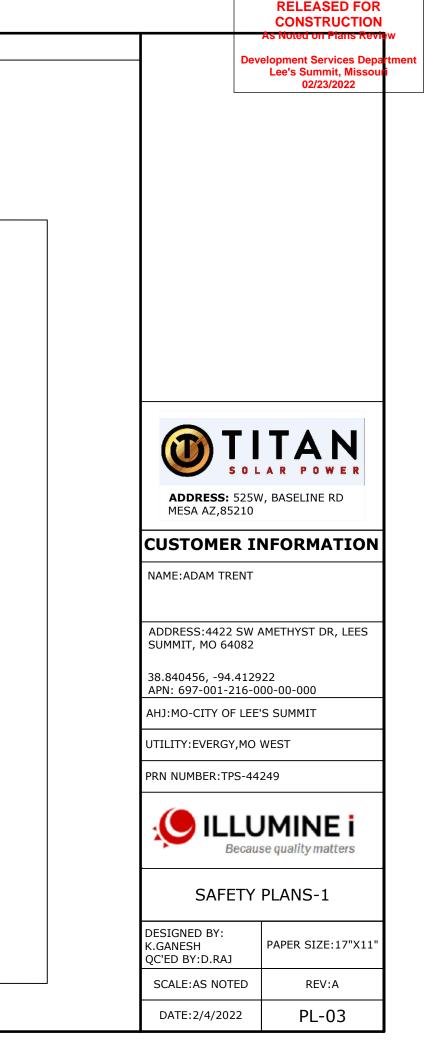
NOTES:

- 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:





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

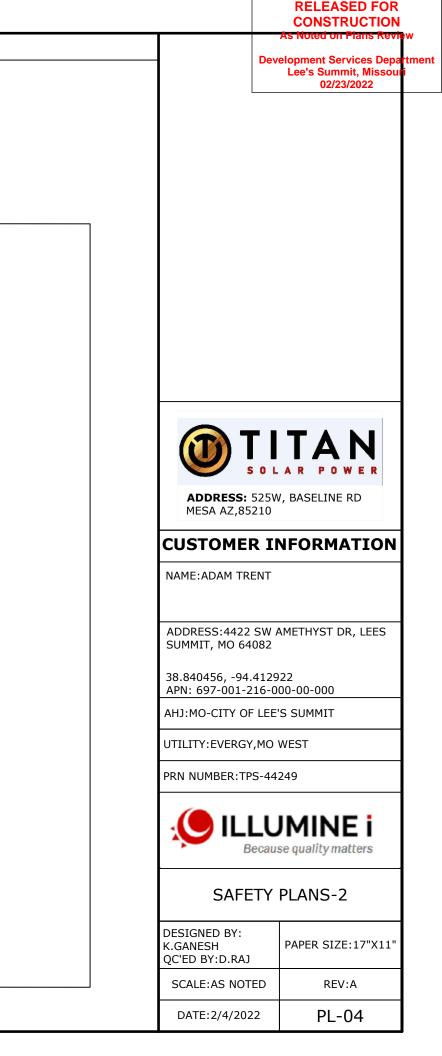
INJURED AT WORK TODAY?

INITIAL YES OR NO

PRINT NAME	INITIAL	YES	NO

UNDERGROUND DIG REQUIRED?

YES _____ PERMIT #_____



SPEC SHEET

60

LG NeON[®]2

LG370N1C-A6 | LG375N1C-A6 | LG380N1C-A6 Preliminary

370W | 375W | 380W

The LG NeON[®] 2 is LG's best selling solar module and one of the most powerful and versatile modules on the market today. The cells are designed to appear all-black at a distance, and the performance warranty guarantees 90.6% of labeled power output at 25 years.





Features

1		٦
	1.2.2.1	F
	25yr	5

Enhanced Performance Warranty

LG NeON[®] 2 has an enhanced performance warranty. After 25 years, LG NeON[®] 2 is guaranteed at least 90.6% of initial performance.



LG NeON[®] 2 performs well on hot days due to its low temperature coefficient.



25yrs

Roof Aesthetics

LG NeON[®] 2 has been designed with aesthetics in mind using thinner wires that appear all black at a distance.

25-Year Limited Product Warranty

The NeON® 2 is covered by a 25-year limited

product warranty. In addition, up to \$450 of

a module needs to be repaired or replaced.

labor costs will be covered in the rare case that

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

About LG Electronics USA, Inc.

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. The company first embarked on a solar Loc clection is a global leader in reaction in POBLICS in the clean energy matches by One any Source Police Source Source (Loc Clear Control and Clear Contr stries. In 2010, LG Solar st



LG NeON[®]2

LG370N1C-A6 | LG375N1C-A6 | LG380N1C-A6

General Data				
Cell Properties (Material/Type)	Monocrystalline/N-type			
Cell Maker	LG			
Cell Configuration	60 Cells (6 x 10)			
Module Dimensions (L x W x H)	1,740mm x 1,042mm x 40mm			
Weight	18.6 kg			
Glass (Material)	Tempered Glass with AR Coating			
Backsheet (Color)	White			
Frame (Material)	Anodized Aluminium			
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes			
Cables (Length)	1,100mm x 2EA			
Connector (Type/Maker)	MC 4/MC			

Certifications and Warranty

	IEC 61215-1/-1-1/2 : 2016, IEC 61730-1/2 : 2016, UL 61730-1 : 2017, UL 61730-2 : 2017
Certifications**	ISO 9001, ISO 14001, ISO 50001
	OHSAS 18001
Salt Mist Corrosion Test	IEC 61701:2012 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Module Fire Performance	Type 1 (UL 61730)
Fire Rating	Class C (UL 790, ULC/ORD C 1703)
Solar Module Product Warranty	25 Year Limited
Solar Module Output Warranty	Linear Warranty*
*Improved: 1 st year 98.5%, from 2-24th year. **In Progress	: 0.33%/year down, 90.6% at year 25

emperature	Chara	cterist
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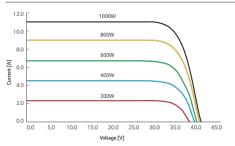
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.34
Voc	[%/°C]	-0.26
lsc	[%/°C]	0.03
NMOT (Nominal Module Operating Ten	nperature): Irr	adiance 800 W/m², Ambient temperature 20°C,

Wind speed 1 m/s, Spectrum AM 1.5

Electrical Properties (NMOT)

Model	LG370N1C-A6	LG375N1C-A6	LG380N1C-A6	
Maximum Power (Pmax) [W]		277	281	285
MPP Voltage (Vmpp)	[V]	32.8	33.2	33.5
MPP Current (Impp) [A]		8.46	8.48	8.49
Open Circuit Voltage (Voc)	[V]	39.3	39.4	39.4
Short Circuit Current (Isc)	[A]	9.09	9.13	9.16

I-V Curves



G Electronics USA, In

Solar Business Divisio 2000 Millbrook Drive Lincolnshire, IL 60069

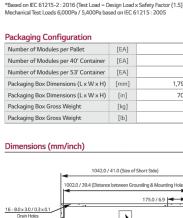
www.lg-solar.com

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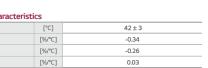
Life's Good

Product specifications are subject to change without notice. LG370-380N1C-A6_AUS.pdf 121520

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1100 / 43.3 Cable Length



C]	42 ± 3
"°C]	-0.34
°C1	-0.26

Packaging Box Gross Weight [kg] Packaging Box Gross Weight Dimensions (mm/inch)

8-8.5 x 12.0 / 0.3 x 0.5

Electrical Properties (STC*)

Open Circuit Voltage (Voc, ± 5%) Short Circuit Current (Isc. ± 5%) Module Efficiency

Bifaciality Coefficient of Power

Operating Conditions

Operating Temperature

Maximum System Voltage

Maximum Series Fuse Rating

Mechanical Test Load' (Front)

Mechanical Test Load[®] (Rear)

*STC (Standard Test Condition): Irradiance 1000 W/m², cell ten

Power Tolerance

Maximum Power (Pmax MPP Voltage (Vmpp) MPP Current (Impp)

Model

RELEASED FOR CONSTRUCTION

Development Services Depa ment Lee's Summit, Missou 02/23/2022



Preliminary

N1C-A6	LG375N1C-A6	LG380N1C-A6
70	375	380
4.9	35.3	35.7
.61	10.63	10.65
1.7	41.8	41.9
.31	11.35	11.39
0.4	20.7	21.0
	10	
	0~+3	
perature	25°C. AM 1.5	

LG370

[%]

[%]

[°C]

[V]

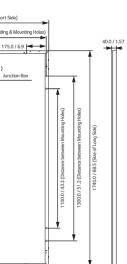
[A]

[Pa/psf]

[Pa/psf]

	-40 ~+85	
	1,000	
	20	
	5,400	
	4,000	
actor (15))		

25
650
850
1,790 x 1,120 x 1,213
70.5 x 44.1 x 47.8
500
1,102





ADDRESS: 525W, BASELINE RD MESA AZ,85210

CUSTOMER INFORMATION

NAME: ADAM TRENT

ADDRESS:4422 SW AMETHYST DR, LEES SUMMIT, MO 64082

38.840456, -94.412922 APN: 697-001-216-000-00-000

AHJ:MO-CITY OF LEE'S SUMMIT

UTILITY: EVERGY, MO WEST

PRN NUMBER: TPS-44249



MODULE SPEC SHEET

DESIGNED BY:
K.GANESH
QC'ED BY:D.RAJ

PAPER SIZE:17"X11"

SCALE: AS NOTED

DATE:2/4/2022

REV:A

SS-01

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	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	100		
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	100		
AC Output Voltage MinNomMax. (211 - 240 - 264)	✓	~	~	1	~	~		
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	~	-	~	-	-		
AC Frequency (Nominal)				59.3 - 60 - 60.5(1)				
Maximum Continuous Output Current @240V	12.5	16	21	25	32	4.		
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	155		
Maximum DC Power @208V	-	5100	-	7750	-	-		
Transformer-less, Ungrounded				Yes				
Maximum Input Voltage				480				
Nominal DC Input Voltage		3	80			40		
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	2		
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-		
Max. Input Short Circuit Current				45				
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600kΩ Sensitivity				
Maximum Inverter Efficiency	99			ç	19.2			
CEC Weighted Efficiency				99				
Nighttime Power Consumption				< 2.5				

[®] 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

NVERTERS

RELEASED FOR CONSTRUCTION

Development Services Depa Lee's Summit, Misso 02/23/2022

		1
0H-US	SE11400H-US	
00	11400 @ 240V 10000 @ 208V	VA
00	11400 @ 240V 10000 @ 208V	VA
·	1	Vac
	1	Vac
		Hz
2	47.5	A
	48.5	А
		A
00	17650	W
	15500	W
		Vdc
0		Vdc
7	30.5	Adc
	27	Adc
		Adc
		%
	99 @ 240V 98.5 @ 208V	%
		W



ADDRESS: 525W, BASELINE RD MESA AZ,85210

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UTILITY:EVERGY,MO WEST

PRN NUMBER: TPS-44249



INVERTER SPEC SHEET

DESIGNED BY: K.GANESH QC'ED BY:D.RAJ

PAPER SIZE:17"X11"

SCALE: AS NOTED

DATE:2/4/2022

REV:A

SS-02

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

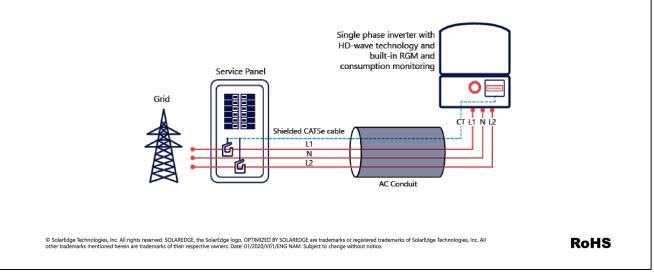
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

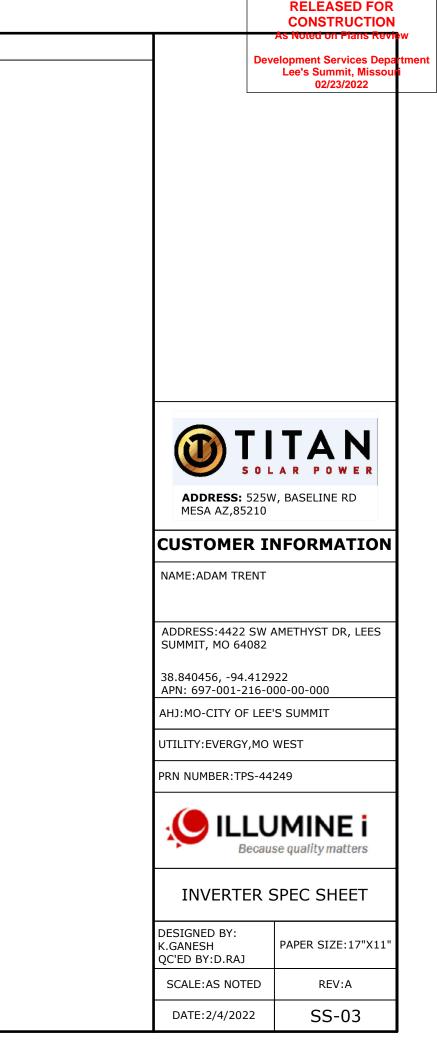
MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US		
ADDITIONAL FEATURES									
Supported Communication Interfaces			RS485, Etherne	t, ZigBee (optional),	Cellular (optional)				
Revenue Grade Metering, ANSI C12.20		Optional ⁽³⁾							
Consumption metering									
Inverter Commissioning		With the Set4	App mobile applicati	on using Built-in Wi-	i 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		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	VG		1'' Maximum /	14-4 AWG		
DC Input Conduit Size / # of Strings / AWG Range		1'' Maxir	mum / 1-2 strings / 14	1-6 AWG		1'' Maximum / 1-3 str	rings / 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 / 5	540 x 370 x 185	in / mm	
Weight with Safety Switch	22	/ 10	25.1 / 11.4	26.2	/ 11.9	38.8 / 1	17.6	lb / k	
Noise		<	25			<50		dBA	
Cooling				Natural Convection	ı				
Operating Temperature Range		-40 to +140 / -40 to +60 ⁽⁴⁾						°F/°	
Protection Rating	NEMA 4X (Inverter with Safety Switch)								

^(h) Inverter with Revenue Grade Meter P/N: SExcodH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExcodH-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





Power Optimizer

For North America P370 / P400 / P401 / P485 / P505



PV power optimization at the module-level

- 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)		P401 (for high power 60 and 72 cell modules)	P485 (for high-voltage modules)	P505 (for higher current modules)				
INPUT									
Rated Input DC Power ⁽¹⁾	370		400	485	505	W			
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	80	60	125%	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 DC Input Current	13.75	12.5	14.65	12.5	17.5				
Maximum Efficiency			99.5			%			
Weighted Efficiency			98.8			%			
Overvoltage Category									
OUTPUT DURING OPERATION	N (POWER OPTIMIZEI	R CONNECTED	TO OPERATING SO	AREDGE INVERTE	R)				
Maximum Output Current			15			Adc			
Maximum Output Voltage		60 80							
OUTPUT DURING STANDBY (F	OWER OPTIMIZER DI	SCONNECTED	FROM SOLAREDGE IN	IVERTER OR SOLA	REDGE INVERTER	OFF)			
Safety Output Voltage per Power Optimizer			1 ± 0.1			Vdc			
STANDARD COMPLIANCE	1								
EMC		FCC Part	15 Class B, IEC61000-6-2, IEC6	1000-6-3					
Safety		IEC6210	9-1 (class II safety), UL1741, NE	C/PVRSS					
Material			UL94 V-0 , UV Resistant						
RoHS			Yes						
INSTALLATION SPECIFICATIO	NS								
Maximum Allowed System Voltage			1000			Vdc			
Compatible inverters		All SolarEdo	ge 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 159 x 49.5 / 5.1 x 6.3 x 1.9	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm /in			
Weight (including cables)	630 / 1.4	750 / 1.7	655 / 1.5	845 / 1.9	1064 / 2.3	gr/lk			
Input Connector		MC4 ⁽³⁾		MC4(3)	MC4(3)				
Input Wire Length			0.16 / 0.5			m / ft			
Output Wire Type / Connector			Double Insulated / MC4						
Output Wire Length			1.2 / 3.9			m / ft			
Operating Temperature Range (4)			-40 to +85 / -40 to +185			°C/°			
	IP68 / Type6B								
Protection Rating			гоо / туреов						

(2) NEC 2017 requires max input voltage be not more than 80V

 (3) For other connector types please contact SolarEdge
 (4) Longer inputs wire lengths are available for use. For 0.9m input wire length order P401-xxxLxxx
 (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: https://www.solaredge.com/sites/default/files/seemperature-derating-note-na.pdf

PV System Design Usi Inverter ⁽⁶⁾⁽⁷⁾	ng a SolarEdge	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length P370, P400, P401		8	8		18	
(Power Optimizers)	P485, P505	6		8	14	
Maximum String Length (Power Optimizers)		25		25	50	
Maximum Power per String		5700 ⁽⁸⁾ (6000 with SE7600-US - SE11400-US) 5250 ⁽⁸⁾		6000 ⁽⁹⁾	12750(10)	W
Devellel Christen of Different Lengths or Orientations			``	100		

Parallel Strings of Different Lengths or Orientations

(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) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement

(9) For 208V grid: it is allowed to install up to 6,500W 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

OPTIMIZ

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RELEASED FOR CONSTRUCTION

Development Services Depa Lee's Summit, Misso 02/23/2022



RoHS



ADDRESS: 525W, BASELINE RD MESA AZ,85210

CUSTOMER INFORMATION

NAME: ADAM TRENT

ADDRESS:4422 SW AMETHYST DR, LEES SUMMIT, MO 64082

38.840456, -94.412922 APN: 697-001-216-000-00-000

AHJ:MO-CITY OF LEE'S SUMMIT

UTILITY: EVERGY, MO WEST

PRN NUMBER: TPS-44249



OPTIMIZER SPEC SHEET

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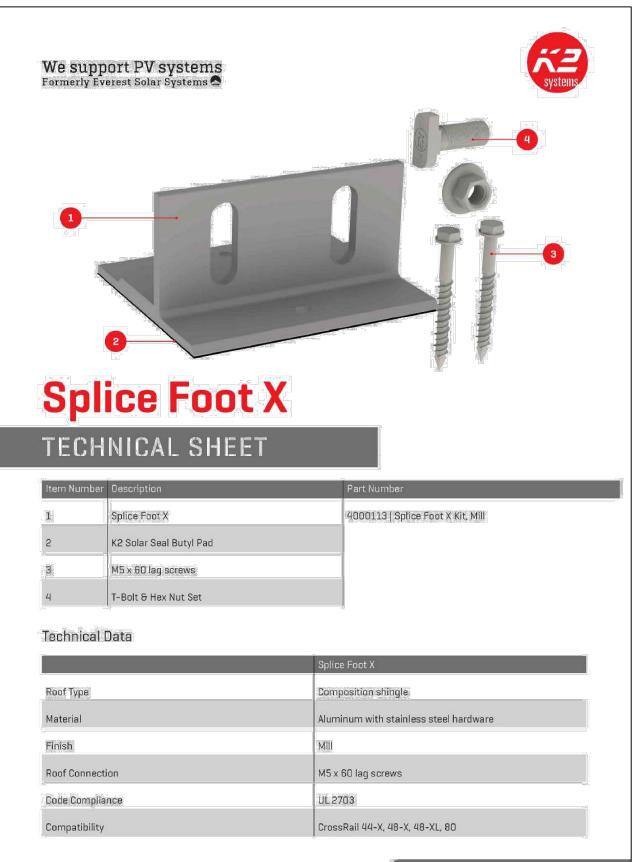
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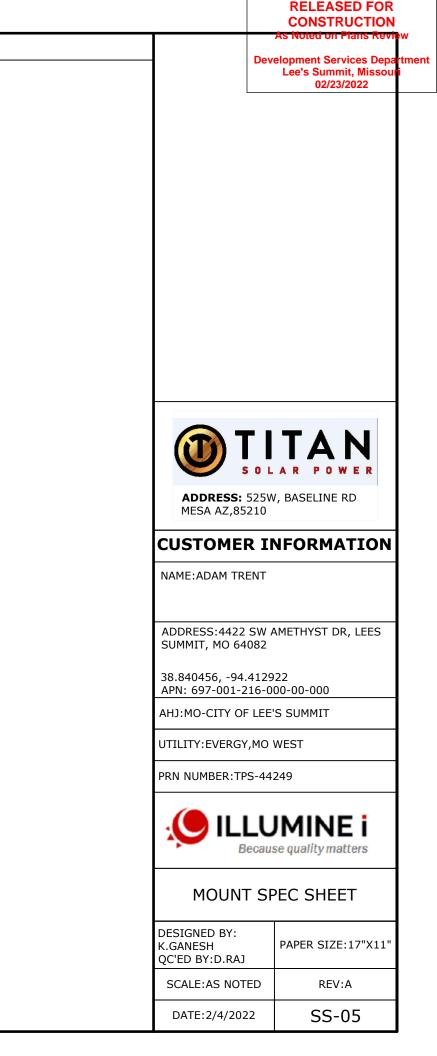
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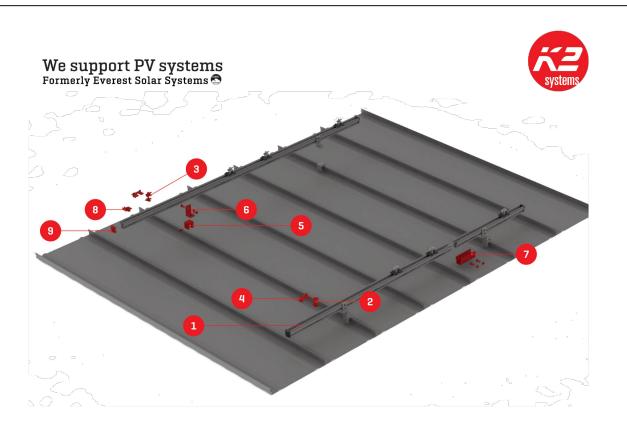
SS-04



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SPEC SHEET



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



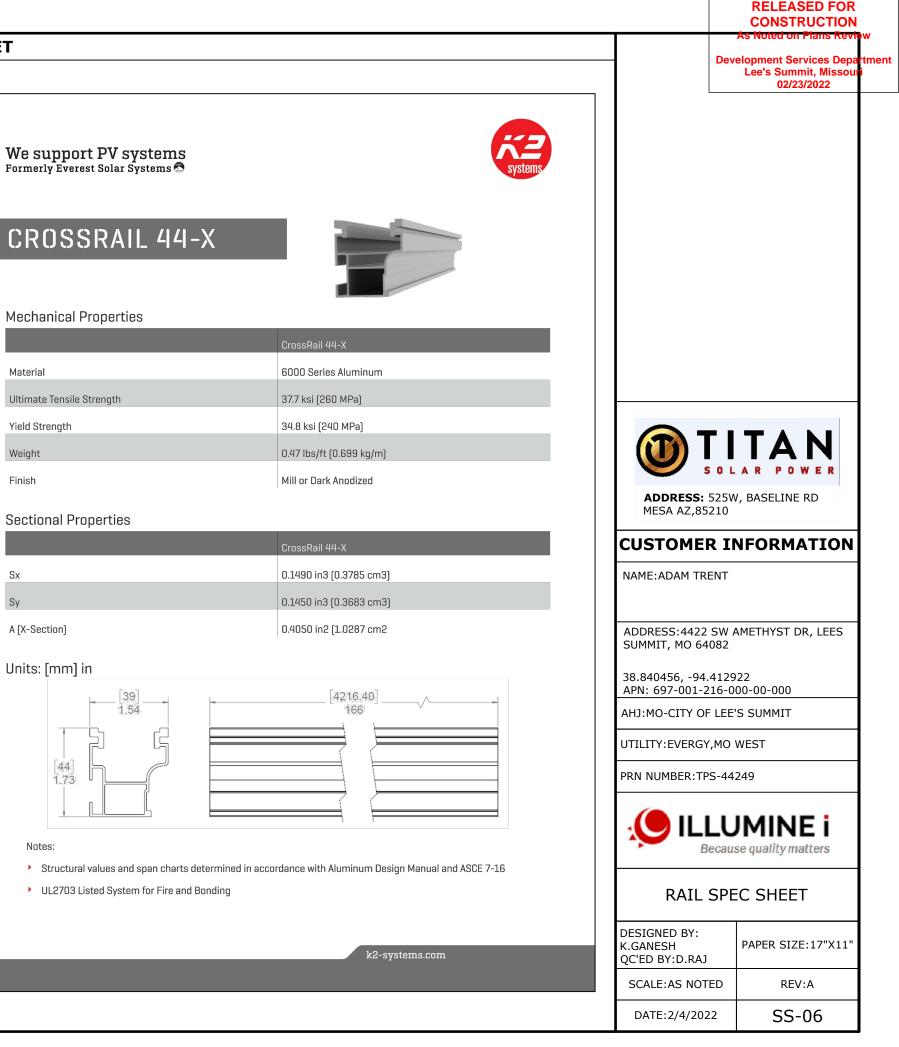
Mechanical Properties

	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

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