	+	- PV MODULE	MODULES																
	\square		REF.	QT	v	MAKE AND MODEL		PMAX	PTC	ISC			VMP	1	TEMD	COEFF. OF VOC	、 、	1	FUSE RATING
٢						SILFAB SIL-370 NX		370W	342W	10.20		47.6V	38.9V			3V/°C (-0.3%/°C)	,		20A
		~ ~	PM1-3	2 32	2			0/011	01211	10.20			00.01						20/1
þ																			
i	5401 ⁻³²	34	REF. QTY.		MAKE AND MODEL		C VOLTAGE		GROUND		RATED POWER		PUT CURRENT		MAX INPUT CURREN	IT M.	AX INPUT VOL	rage v	EIGHTED EFFICIENCY
					S (240V)	40V) 240V NOT SOLID				Y GROUNDED 3,800W 1			6.0A		13.0A 500V			97.5%	
g	STRING	56									OPTIMIZE	RS							
	REF. QTY. MODE				L	WER MAX OUTPUT CURRENT			MAX II	NPUT ISC	м	MAX DC VOLTAGE		WEIGHT	WEIGHTED EFFICIENCY				
þ	P01-32 32 SOLAR E				GE P401	401W			15A		11.75A			60V		98.8%			
									00	PDS									
لح			REF. QT	Y.	MAKE	AND MODEL			CURRENT		MAX RATED \	OLTAGE	REF.	. Q	IY.	RATED CURRE	-	M	AX VOLTAGE
i			SW1 1		EATON DP22	INRB OR EQUIV.		:	30A		240VA	С	F1-2	1	2	20A			OVAC
		(1)																	
	JUNCTION BOX DC SOURCE CIRCUIT CURRENT 15A SOLAR EDGE SYSTEM MEETS REQUIREMENTS FOR PHOTOVOLTAIC RAPID SHUTDOWN SYSTEM (PVRSS), AS PER NEC 690.12(B).																		
>	□□□> I JB1 DIMILET OF OF TIMILET OF TIMILET.																		
	ARRAY OPERATING CURRENT 12.7A																		
		2 ARRAY STC POWER 4,440W ARRAY PTC POWER 4,107W AT THE DESIGN TEMPERATURES, HAVE A MAX INPUT CURRENT RATING THAT IS ABOVE THE MAX OUTPUT CURRENT OF THE MODULE, AND A MAX POWER INPUT THAT IS ABOVE THE RATED POWER OUTPUT OF THE																	
		/ INVERTER																	
		I1 3,800W																	
	DERATED AC POWER OUTPUT 3,800W AX AC POWER OUTPUT 3,800W AC POWER OU																		
	-11+					ALL METAL E	NCLOSURES, RA	CEWAYS, CAE	LES AND EXP	OSED NONCU	RRENT-CARRYING	METAL PARTS OF	EQUIPMENT SH	IALL BE GR	OUNDED TO EARTH	AS REQUIRED E	Y NEC 250.4(A) AND PART III OF	ARTICLE 250 AND
		ALL METAL ENCLOSURES, RACEWAYS, CABLES AND EXPOSED NONCURRENT-CARRYING METAL PARTS OF EQUIPMENT SHALL BE GROUNDED TO EARTH AS REQUIRED BY NEC 250.4(A) AND PART III OF ARTICLE 250 AND EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC 690.45. THE GROUNDING ELECTRODE SYSTEM SHALL ADHERE TO NEC 690.47(A) AND NEC 250.169. THE DC GROUNDING ELECTRODE SHALL BE SIZED ACCORDING TO NEC 250.166 AND INSTALLED IN COMPLIANCE WITH NEC 250.64.																	
L						BE SIZED ACC	CORDING TO NEC	250.166 AND	INSTALLED IN	COMPLIANCE	WITH NEC 250.64.								
										2501/ DECAD					ULE AT 0°C IS 51.2V	(0°C 25°C) V 0	1421/10 1 47 61	(- 51 2)/)	
							TAGE OF ARRATT		INVERIERAI	JUV REGAR	JLESS OF TEMFER	ATURE. THE MAX	DC VOLTAGE OF		ULE AT 0 G 13 51.2V	(0 0 - 25 0) X -0	. 1439/0 + 47.01	r = 51.2V).	
						A POINT-OF-CO	INNECTION IS ON	THE SUPPLY	SIDE OF SERV	/ICE DISCONN	ECT AT METER B	ASE TERMINALS T	HAT ARE SUITAR		UBLE LUGGING OR	USING ANOTHE	R I OCALLY-AP	PROVED METHOD	IN COMPLIANCE
		POINT-OF-CONNECTION IS ON THE SUPPLY SIDE OF SERVICE DISCONNECT, AT METER BASE TERMINALS THAT ARE SUITABLE FOR DOUBLE LUGGING OR USING ANOTHER LOCALLY-APPROVED METHOD, IN COMPLIANCE WITH NEC 705.12(A).																	
نب <u>الاسم</u>																			
	PV I					PV SYSTEM D	DISCONNECT SHA	LL BE A VISIE	LE KNIFE-BLA	DE TYPE DISC	ONNECT THAT IS /	CCESSIBLE AND	LOCKABLE BY TH	HE UTILITY	THE DISCONNECT	SHALL BE LOCA	TED WITHIN 10	FT OF UTILITY ME	TER.
	PV SYSTEM DISCONNECT SHALL BE A VISIBLE KNIFE-BLADE TYPE DISCONNECT THAT IS ACCESSIBLE AND LOCKABLE BY THE UTILITY. THE DISCONNECT SHALL BE LOCATED WITHIN 10 FT OF UTILITY METER. DISCONNECT SHALL BE GROUPED IN ACCORDANCE WITH NEC 230.72. GROUNDED CONDUCTOR SHALL BONDED INSIDE DISCONNECT PER NEC 250.24(B) AND NEC 250.24(C)																		
L	20A																		
CONDUCTOR AND CONDUIT SCHEDULE W/ELECTRICAL CALCULATIONS																			
L	- 30A	4	ID TYPICA		ONDUCTOR	CONDUIT / CABLE	CURRENT-CAR CONDUCTO		OCPD		EGC	TEMP. CORR.	FILL FACTOR	CON	T. CURRENT	BASE AMP.	DERATED	TERM.	AMP. @ TERM.
-	(100A MSP W/				UNDUCTOR	CONDUIT / CABLE	CONDUCTO CONDUIT/C		UCPD		EGC	FACTOR	FILL FACTOR	CURRI	ENT (125%)	BASE AWP.	AMP.	TEMP. RATING	TEMP. RATING
	(100A WISP W/		1 1	10 AWG F	PV WIRE, COPPER	FREE AIR	N/A		N/A	6 AWG	BARE, COPPER	0.76 (54°C)	1.0	15A	, ,	55A	41.8A	75°C	50A
	▼ ! Ľ~		2 1	8 AWG T	THWN-2, COPPER	0.5" DIA. EMT	2		N/A	12 AWG 1	HWN-2, COPPER	0.96 (32°C)	1.0	15A	18.75A	55A	52.8A	90°C	55A
		LOADS	3 1	12 AWG "	THWN-2, COPPER	0.5" DIA. EMT	2		20A	12 AWG 1	HWN-2, COPPER	0.96 (32°C)	1.0	16A	20A	30A	28.8A	75°C	25A
i i			4 1	6 AWG T	THWN-2, COPPER	0.75" DIA. EMT	2		20A		N/A	0.96 (32°C)	1.0	16A	20A	75A	72A	75°C	65A
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	$\int / \sqrt{8}$	\backslash																	
- [LOAD	_																	
(METER																	
AC – K	KWHR UTILITY 240/120V	΄1φ, <u>3</u> Ŵ																	
	V																		

		GENERAL ELECTRICAL						
		NOTES						
		UTILITY HAS 24-HR UNRESTRICTED						
	1	ACCESS TO ALL PHOTOVOLTAIC	-	PosiGen				
	'	SYSTEM COMPONENTS LOCATED AT	-					
		THE SERVICE ENTRANCE.		Pure Positive Energy				
		CONDUCTORS EXPOSED TO						
		SUNLIGHT SHALL BE LISTED AS	11.84	4 SE SILFAB 370				
	2	SUNLIGHT RESISTANT PER NEC						
-		ARTICLE 300.6 (C) (1) AND ARTICLE						
		310.10 (D).						
		CONDUCTORS EXPOSED TO WET	Ш					
		LOCATIONS SHALL BE SUITABLE FOR	Ē					
	3	USE IN WET LOCATIONS PER NEC	S S					
		ARTICLE 310.10 (C).	S I					
		GROUNDING NOTES						
		ALL EQUIPMENT SHALL BE	N					
		PROPERLY GROUNDED PER THE	$\overline{\mathbf{O}}$					
	1	REQUIREMENTS OF NEC ARTICLES	Ъ					
		250 & 690						
		PV MODULES SHALL BE GROUNDED	GRID-TIED SOLAR POWER SYSTEM					
		TO MOUNTING RAILS USING MODULE						
		LUGS OR RACKING INTEGRATED						
		GROUNDING CLAMPS AS ALLOWED	$\tilde{\mathbf{C}}$					
	2	BY LOCAL JURISDICTION. ALL OTHER						
		EXPOSED METAL PARTS SHALL BE						
		GROUNDED USING UL-LISTED LAY-IN						
		LUGS.						
		INSTALLER SHALL CONFIRM THAT	L C C					
		MOUNTING SYSTEM HAS BEEN	Ū.					
		EVALUATED FOR COMPLIANCE WITH						
	3	UL 2703 "GROUNDING AND BONDING"						
		WHEN USED WITH PROPOSED PV						
		MODULE.						
		IF THE EXISTING MAIN SERVICE						
		PANEL DOES NOT HAVE A						
		VERIFIABLE GROUNDING						
	4	ELECTRODE, IT IS THE						
		CONTRACTOR'S RESPONSIBILITY TO						
		INSTALL A SUPPLEMENTAL						
		GROUNDING ELECTRODE.						
		AC SYSTEM GROUNDING						
	_	ELECTRODE CONDUCTOR (GEC)						
	5	SHALL BE A MINIMUM SIZE #8AWG						
		WHEN INSULATED, #6AWG IF BARE						
	-	WIRE.						
		CONDUCTORS SHALL BE SIZED	SINGL	E-LINE DIAGRAM				
		ACCORDING TO NEC ARTICLE 690.45,						
	6	AND BE A MINIMUM OF #10AWG	PROJ	ECT ID:				
	ľ	WHEN NOT EXPOSED TO DAMAGE.						
		AND #6AWG SHALL BE USED WHEN	DATE: 11/8/2021					
		EXPOSED TO DAMAGE	CREATED BY: Jesus F.					
		GROUNDING AND BONDING	CHECKED BY:					
		CONDUCTORS, IF INSULATED, SHALL						
	7	BE COLOR CODED GREEN, OR	REVISIONS					
		MARKED GREEN IF #4AWG OR						
		LARGER						
	_			+				
	(1 SINGLE-LINE DIAGRAM						
-		V-2 SCALE: NTS						
	5	V-2 SUALE. NTS						