





	GENERAL ELECTRICAL	P-153972
T minu REF. QTV MAKE AND MODEL PMAX PTC ISC IMP YOC VMP TEMP: 00EFF: 0F VOC FUSE RATING 320W MAX PMI-8 Q-CELIS Q. FEAK DUO BLK-G6 320 320W 287W 9.94A 9.67A 40.6V 33.8V -0.114VPC (0.28% PC) 20A	NOTES	1 100012
INVERTERS	UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC	
	1 SYSTEM COMPONENTS LOCATED AT	
	THE SERVICE ENTRANCE.	
Inscription Discription OUPUS Image: State and the state	CONDUCTORS EXPOSED TO	
	SUNLIGHT SHALL BE LISTED AS 2 SUNLIGHT RESISTANT PER NEC	
INCIES Incies fee Branch More the server and connectors of the Enhance k07-802-us and are listed to meet requirements as a disconnect means as allowed by nec 680.15(a), mating connectors shall comply with nec More and a connectors of the Enhance k07-802-us and are listed to meet requirements as a disconnect means as allowed by nec 680.15(a), mating connectors shall comply with nec More and a connectors of the Enhance k07-802-us and are listed to meet requirements as a disconnect means as allowed by nec 680.15(a), mating connectors shall comply with nec More and a connectors of the Enhance k07-802-us and are listed to meet requirements as a disconnect means as allowed by nec 680.15(a).	ARTICLE 300.6 (C) (1) AND ARTICLE	
MAX AC OUTPUT 1,920W	310.10 (D).	Σ
JUNCTION BOX ARRAY PTC POWER 2376 W ZC GROUND FAULT PROTECTION (GFP). TO SUPPORT GFP, USE OILY PV MODULES EQUIPPED WITH DC CABLES LABELED PV WIRE OR PV CABLE.	CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR	
JB1 MAX AC CURRENT 8A MAX AC POWER OUTPUT 1,500W AC ENPHASE SYSTEM MEETS REQUIREMENTS FOR PHOTOVOLTAIC RAPID SHUTDOWN SYSTEM (PVRSS), AS PER NEC 690.12.	³ USE IN WET LOCATIONS PER NEC	
	ARTICLE 310.10 (C).	SYSTEM EY 147
P1-2 PV Diguonaech		CH 그 은
L UNGROUNDED SYSTEM DC CONDUCTORS SHALL BE COLOR-CODED AS FOLLOWS, DC POSITIVE SHALL BE RED (OR MARKED RED) AND DC NEGATIVE SHALL BE BLACK (OR MARKED BLACK)	GROUNDING NOTES	POWER)RD ALLE IA, PA 19
4 60A	PROPERLY GROUNDED PER THE	
Course and the sized according to the c 900,45(4), THE GROUNDING ELECTRODE SYSTEM SHALL ADHERE TO NEC 690,47 AND NEC 250,169. THE DC GROUNDING ELECTRODE SHALL BE SIZED ACCORDING TO NEC 220,169 AND INSTALLED IN COMPLIANCE WITH NEC 250,54.	REQUIREMENTS OF NEC ARTICLES	
▲ MAX DC VOLTAGE OF PV MODULE IS 45,0V AT - 14*C (-14*C - 28*C) X-0,114 VIC + 40,56V = 45,0V).	250 & 690 PV MODULES SHALL BE GROUNDED	SOLAR BRADFO DELRHI
LOADS	TO MOUNTING RAILS USING MODULE	L L L L
	LUGS OR RACKING INTEGRATED	TIED SOLAR POWER SY 718 BRADFORD ALLEY RHILADELRHIA, PA 19147
PY 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.	2 GROUNDING CLAMPS AS ALLOWED BY LOCAL JURISDICTION. ALL OTHER	
CONDUCTOR AND CONDUIT SCHEDULE WELECTRICAL CALCULATIONS	EXPOSED METAL PARTS SHALL BE	TIED 718 E RHILA
	GROUNDED USING UL-LISTED LAY-IN LUGS.	
ID IV IV CONDUCTOR CONDUCTOR OUNDUCTOR OUNDUCTOR OUNDUCTOR OUNDUCTOR OUNDUCTOR OUNDUCTOR IV OUNDUCTOR FACTOR FLL FACTOR CURRENT CONDUCTOR AMP. TEMP.RATING 1 1 10 AWG THWN-2, COPPER 0.5° DIA FVC-40 2 10A 10 AWG THWN-2, COPPER 0.5° DIA FVC-40 2 10A 10A 40A 23.2A 75°C 35.A	INSTALLER SHALL CONFIRM THAT	GRID
2 1 6 AWG TH/WH-2, COPPER 0.75° DIA, PVC-40 2 10A 14 AWG TH/WH-2, COPPER 0.96 (34°C) 1.0 8A 10A 75A 72A 75°C 65A	MOUNTING SYSTEM HAS BEEN	8
	3 EVALUATED FOR COMPLIANCE WITH 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	
	5 SHALL BE A MINIMUM SIZE #8AWG	
	WHEN INSULATED, #6AWG IF BARE	
	WIRE. EQUIPMENT GROUNDING	
	CONDUCTORS SHALL BE SIZED	SINGLE-LINE DIAGRAM
	ACCORDING TO NEC ARTICLE 690.45,	
	6 AND BE A MINIMUM OF #10AWG WHEN NOT EXPOSED TO DAMAGE,	PROJECT ID: 153972
	AND #6AWG SHALL BE USED WHEN	DATE: 05/06/21 CREATED BY: M.C.
	EXPOSED TO DAMAGE	CREATED BY: M.C.
	GROUNDING AND BONDING CONDUCTORS. IF INSULATED. SHALL	
	7 BE COLOR CODED GREEN, OR	REVISIONS
	MARKED GREEN IF #4AWG OR	
	1 SINGLE-LINE DIAGRAM	
	PV-3 SCALE: NTS	PV-3
	\smile	

SW1 - DISCONNECT (SQUARE D D222NRB)	A EACH DISCONNECTING MEANS FOR	2 AC SOLAR DISCONNECT (SW1)	3 AC DISCONNECT (SW1)	LABELING NOTES		P-	P-153972	
				1	ALL PLAQUES AND SIGNAGE REQUIRED BY 2014 NEC AND 2015 IFC WILL BE INSTALLED AS REQUIRED.			
MSP - MAIN SERVICE PANEL	I WARNING I ELECTRIC SHOCK HAZARD, DO NOT TOUCH TERMINALS, TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION. NEC690.17(E)	PHOTOVOLTAIC AC DISCONNECT	MAXIMUM AC OPERATING CURRENT: 8.0A MAXIMUM AC OPERATING VOLTAGE: 240V	2	LABELS, WARNING(S) AND MARKING SHALL COMPLY WITH ANSI 2535.4, WHICH REQUIRES THAT DANGER, WARNING, AND CAUTION SIGNS USED THE STANDARD HEADER COLORS, HEADER TEXT, AND SAFETY ALERT SYMBOL ON EACH LABEL THE ANSI STANDARD REQUIRES A HEADING THAT IS AT LEAST 50% TALLER			
N	ANY AC ELECTRICAL PANEL THAT IS FED BY BOTH THE UTILITY AND THE PHOTOVOLTAIC			-	THAN THE BODY TEXT, IN ACCORDANCE WITH NEC 110.21(B). A PERMANENT PLAQUE OR DIRECTORY SHALL BE			
				3	INSTALLED PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS IF NOT IN THE SAME LOCATION IN ACCORDANCE WITH NEC 690.56(B).	R SYSTEM	D ALLEY PA 19147	
	DUAL POWER SOURCE, SECOND SOURCE IS PHOTOVOLTAIC SYSTEM.	5				SOLAR POWER	718 BRADFORD ALLEY HILADELPHIA, PA 1914	
	NECTO 12(0)(3)					LARP	718 BRADFORI PHILADELPHIA,	
							18 BR	
						GRID-TIED	► E	
						B		
						SAFE	TY LABELS	
						DOC	ID: 153972-189748-1	
							TE: 5/6/21 DR: M.C. ER:	
							EVISIONS	
							PV-4	

	GENERAL NOTES		P-153972	
	1	ROOF ACCESS POINTS SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS. (IFC 605.11.1.1)		
	2	PANELS AND MODULES INSTALLED ON GROUP R-3 BUILDINGS SHALL BE LOCATED NOT LESS THAN 3 FEET (914 MM) FROM THE RIDGE IN ORDER TO ALLOW FOR FIRE DEPARTMENT SMOKE VENTILATION OPERATIONS, EXCEPT IN SUCH CASES WHERE AN ALTERNATIVE VENTILATION METHOD APPROVED BY THE FIRE CHIEF HAS BEEN PROVIDED OR WHERE THE FIRE CHIEF HAS DETERMINED VERTICAL VENTILATION TECHNIQUES WILL NOT BE EMPLOYED. (IFC 605.11.1.2.5)	ER SYSTEM	ALLEY A 19147
1 FIRE SAFETY PLAN PV-7 SCALE: 1" = 10'	1 0.5 FT. WIDE FIRE ACCESS PATHWAY PV MODULES INSTALLED ON ROOF WITH IRONRIDGE ROOF MOUNTING SYSTEM THE MOUNTING SYSTEM IS 2 UL 1703 CLASS A FIRE RATED ON A FLAT SLOPED ROOF WHEN INSTALLED WITH TYPE 1 MODULES. THE Q-CELLS Q.PEAK DUO BLK-G5 320 IS TYPE 1. 3 ROOF ACCESS POINT 4 0.5 FT. WIDE FIRE ACCESS PATHWAY 5 ROOF ACCESS POINT 4 0.5 FT. WIDE FIRE ACCESS PATHWAY 5 ROOF ACCESS POINT 6 REPRESENTS 50.9% OF TOTAL PLAN VIEW ROOF AREA (286.8 SQLFT) THIS SYSTEM UTILIZES MICROINVERTERS. THERE ARE 7 NO DC CIRCUITS OUTSIDE OF THE ARRAY PERIMETER 9 NOE CIRCUITS OUTSIDE OF THE ARRAY PERIMETER 9 ROBLES, WHEN RUN BETWEEN ARRAYS, SHALL BE 8 ENCLOSED IN CONDUIT.	GRID-TIED SOLAR POWER	718 BRADFORD AL PHILADELPHIA, PA	
			DOC DA CREATI REVIEW	E SAFETY PLAN :ID: 153972-189748-1 .TE: 5/6/21 OR: M.C. ER: :EVISIONS VISIONS