

So what are the components of a solar power system?

The Panels

PV (photovoltaic) panels are the most common type of panel, especially for residential installations. They are made from three layers:

- * **The N-Layer** – silicon that is mixed with phosphorus
- * **The P/N Junction** – pure silicon
- * **The P-Layer** – silicon that is mixed with boron



When sunlight strikes the N-Layer, it knocks electrons loose. These electrons pass through the P/N junction (which is a one-way junction) into the P-Layer. This creates an electrical field that then drives the electrons that have been “knocked off” from the silicon, creating an electric current.

The Inverter

If you know your physics, then you will know that the electric current that is generated in this way is direct current (DC), which is like the electricity stored in batteries. However, mains electricity is alternating current (AC) where the flow of electricity changes direction 50 times a second. To make the electricity supplied by solar power suitable for use in domestic homes, a device is needed that converts DC current to AC current, and this device is called an inverter.

An inverter works in a very simple way, using a series of switches which are known as “solid state switches” that “flips” the DC current backwards and forwards 50 times a second, to create the AC current.

The Distributor

The distributor is the device that distributes the AC power created by the inverter to the grid, and sometimes to both the home in which the solar power system has been installed and the grid. The output from the inverter is fed to a dedicated breaker in your house's electric panel, and then through to your home. If you are creating more power than you are using, then some of the power flows backwards and into the grid, and you receive a credit from your utilities company. If your system is not supplying enough energy for your home, then the shortfall is made up as usual by your utilities company.

SUMMARY:

These are the basic components of any solar energy system and as you can see, solar power is not a complex energy system – the cells create DC current, the inverter changes it to AC current, and the distributor controls the way in which power is distributed between your business and your utilities supplier.

What are the solar panel types?

Monocrystalline panels are the most efficient type. Uniformly black, they are long-lasting and perform better in low-light conditions, which makes them a little more expensive.

NOTE: A.D.E. has ordered this type of solar panel for CCHD solar project. See data below.

Polycrystalline panels are the simplest to manufacture and therefore the cheapest. They can suffer in high-temperature climates and are slightly less efficient than their monocrystalline counterparts (although typically not enough for the average homeowner to worry about). They are bright blue and really stand out on a roof.

Thin-film panels, while growing in popularity, are the least efficient of all and require more installation and hardware costs. That said, they are light and flexible enough to be transformed into individual solar-powered roof shingles — very much an indication of what to expect from solar in the future.

Do I have to live somewhere sunny?

It's true that solar panels won't be producing at capacity when they aren't receiving direct sunlight.

However, a cloudy season doesn't totally eliminate the value of solar energy.

Standard grade solar panels actually operate more efficiently in slightly cooler temperatures, as they produce about 1 percent less electricity for every 4°F temperature increase above 77°F

CSUN Mono-crystalline Modules

i) QSAR I & II

Features:

- a) **Cell type:** Monocrystalline
- b) **Module efficiency:** up to 16.63%
- c) **Average power rating:** up to 320 Wp
- d) **No of Cells:** 60 or 72 cells (156*156 mm each)

Models: QSAR I CSUN 320-72M, QSAR II CSUN 320-72M, QSAR I CSUN 270-60M and QSAR II CSUN 270-60M.

ii) Standard Mono Series, The Energizer

Features:

- a) **Cell type:** Monocrystalline
- b) **Module efficiency:** up to 16.06%
- c) **Average power rating:** up to 300 Wp
- d) **No of Cells:** 60 or 72 cells (156*156 mm each)

Crescent City Harbor District Phase 1 101 Citizens Dock Rd, Crescent City, CA 95531 SOLAR ELECTRIC SYSTEM PROJECT - 370.875kW DC STC RATING /



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PERMITTING / PLANNING NOTES:
1. THIS PV SYSTEM INSTALLATION IS SUBJECT TO INSPECTION BY THE AUTHORITY HAVING JURISDICTION AND RENEWABLE ENERGY PARTNERS
2. THIS PROJECT SHALL CONFORM TO THE FOLLOWING CODE VERSIONS:
2016 CALIFORNIA BUILDING CODE (CBC 2016)
2016 CALIFORNIA ELECTRIC CODE (CEC 2016)
AUTHORITY HAVING JURISDICTION
3. SOLAR EDGE INVERTERS & OPTIMIZERS COMPLY WITH 680.12 RAPID SHUTDOWN REQUIREMENTS
4. RUSH RIBSIE BACKING IS UL2703 APPROVED FOR INTEGRATED GROUNDING AND FIRE CLASS A RATED

DRAWING INDEX

Sheet #	Sheet Name
T101	Title Sheet
T102	Notes
A101	Site Layout
A102	Array Layout 1&2
E101	Wiring Layout
E201	Single Line Diagram / Details
E301	Signage / Spec Sheets
E302	Spec Sheets

PROJECT SCOPE:

SOLAR ELECTRIC SYSTEM
THIS PROJECT ENTAILS THE INSTALLATION OF A PHOTOVOLTAIC SYSTEM AT Crescent City Harbor District Phase 1. THE SYSTEM WILL NOT BE A NET ELECTRICITY EXPORTER TO THE UTILITY GRID.
THIS INSTALLATION CONSISTS OF A NEW CARPORT PHOTOVOLTAIC (PV) SYSTEM. THE PV SYSTEM IS STATIC MOUNTED.
THIS SYSTEM WILL BE INTERCONNECTED TO AND WILL BE OPERATED IN PARALLEL WITH THE PP&L ELECTRIC GRID PER THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND UTILITY INTERCONNECT AGREEMENT
CONDITIONS OF APPROVAL:
1. ALL CONSTRUCTION SHALL OCCUR BETWEEN THE HOURS OF 7AM & 7PM, EXCEPT FOR THE PURPOSE OF EMERGENCIES.

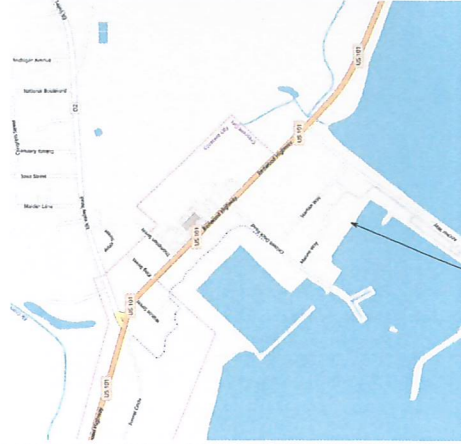
SYSTEM SPECIFICATIONS:
(1) 370.875 kW AC/cap
(2) 1000 SOLAR MODULES: 601X175X72MM, 120V, 50V
(3) SOLAREDEGE INVERTERS: SE33.3KUS480V(EH1)

VICINITY MAP:



PROJECT LOCATION

PROJECT ADDRESS



PROJECT LOCATION

AERIAL PHOTO:



ARRAY LOCATIONS

PROJECT TEAM:

SITE CONTACT:

Crescent City Harbor District
ADDRESS: 101 Citizens Dock Rd, Crescent City, CA 95531
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CONTRACTOR:

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1 <td>Issue for DMR <td>10/22/18 </td></td>	Issue for DMR <td>10/22/18 </td>	10/22/18

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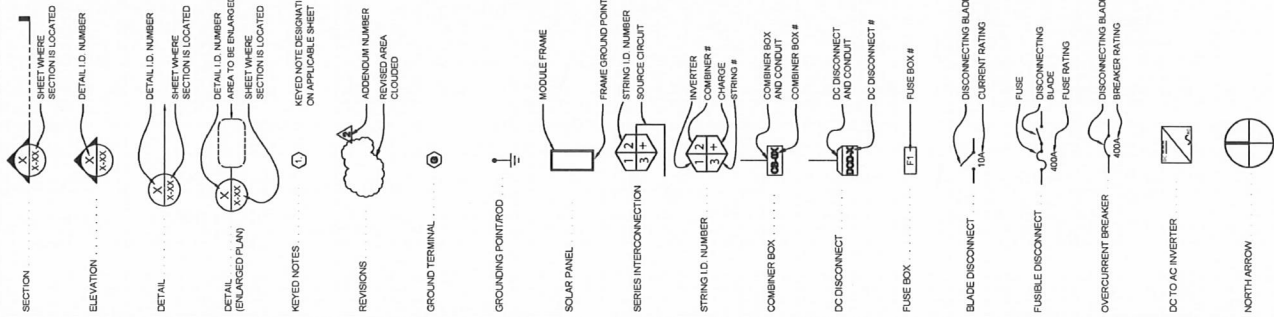
Title Sheet

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Crescent City
Harbor District
Phase 1
101 Citizens Dock Rd,
Crescent City, CA 95531

SYMBOLS



NOTES

- ELECTRICAL NOTES:**
- E1. IN EVERY PULL BOX, TERMINAL BOX, AND AT ALL PLACES WHERE WIRES MAY NOT BE READILY IDENTIFIED BY MARKER TAPINGS ON THE EQUIPMENT TO WHICH THEY CONNECT, IDENTIFY EACH CIRCUIT WITH A PLASTIC LABEL OR TAG FOR NUMBER, POLARITY OF PHASE
 - E2. THE LAYOUT OF CONDUIT SHOWN IN THESE PLANS LOCATE THE CONDUITS TO SUIT SITE CONDITIONS BUT SHALL NOT EXCEED THE MAXIMUM CONDUIT LENGTHS IDENTIFIED ON THE WIRE SCHEDULE. CONTRACTOR WILL COORDINATE ALL CHANGES IN WIRING AND CONDUIT WITH THE ENGINEER.
 - E3. BENDS SHALL NOT DAMAGE THE RACEWAY OR SIGNIFICANTLY CHANGE THE INTERNAL DIAMETER OF RACEWAYS (NO KINKS).
 - E4. SUPPORT CONDUCTORS IN VERTICAL CONDUITS IN ACCORDANCE WITH REQUIREMENTS IN NEC 300.19
 - E5. INSTALL ALL WIRING MATERIALS IN A NEAT WORKMANLIKE MANNER. USE GOOD TRADE PRACTICE AS REQUIRED BY CHAPTER 3 OF THE NEC AND ANS/NECA 1-2000 STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING.
 - E6. INSTALL CONDUIT TO MAINTAIN PROPER CLEARANCES AND IN A NEAT INCONSPICUOUS MANNER. RUN PARALLEL AND AT RIGHT ANGLES TO STRUCTURAL MEMBERS OR OTHER CONDUITS. PROVIDE BOXES, FITTERS AND BENDS FOR CHANGES IN DIRECTION. ALL CONDUIT JOINTS SHALL BE IN PLACE. CONDUCTORS INSULATION IT IS BEING USED WITH IT IS BEING USED WITH IT IS
 - E7. SUPPORT CONDUIT USING STEEL PIPE STRAPS OR LAY-IN ADJUSTABLE HANGERS, CLEVIS HANGERS OR OTHER SUPPORTS. PROVIDE PROPER CLEARANCES PER NEC REQUIREMENTS FOR THE CONDUIT BEING INSTALLED. USE APPROVED BEAM CLAMPS FOR CONNECTION TO STRUCTURAL MEMBERS.
 - E8. PROVIDE PULL, JUNCTION OR CRISTY BOXES WHERE REQUIRED TO FACILITATE THE INSTALLATION OF CONDUITS. PROVIDE PULL BOXES BETWEEN BENDS THAT EXCEED THE EQUIVALENT OF FOUR 90 DEGREE BENDS SHALL BE CUT SQUARE AND DEBURRED.
 - E9. WHEN FIELD OTTING IS REQUIRED, THE CONDUIT SHALL BE CUT SQUARE AND DEBURRED.
 - E10. CONDUIT SIZES NOT SPECIFIED SHOULD CONFORM TO NEC SPECIFICATIONS, TO INCLUDE PULL FACTOR AND CONDUIT FRICTION. CONDUCTORS WITH A MINIMUM CONDUIT SIZE BEING 5/4"
 - E11. THE WIRING MINIMUM SIZE SHALL BE #12 AWG.
 - E12. SAFETY REGULATION (LOCK OUT - TAG OUT, ETC.) IS THE FULL RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION.
 - E13. THE WIRING SIZE IS BASED ON THE ESTIMATED CONDUIT ROUTING SHOWN IN THIS DRAWING PACKAGE. SHOULD THE CONDUITS LENGTH INCREASE DUE TO LOCATION OF SOURCE AND/OR ROUTING THE CONDUITS AND THE CONDUCTORS MAY NEED BE RESIZED. PLEASE CONTACT THE ENGINEER PRIOR TO MAKING ANY FIELD CHANGES.
 - E14. ALL WIRING IN CONDUIT SHALL BE THWN-2 FOR 90 DEGREE CELSIUS APPLICATIONS. USE BARE COPPER FOR GROUNDING FOR EXTERNAL GROUND USE. INSULATION FOR ALL EXPOSED OR HORIZONTAL WIRING.
 - E15. FOR INTER CONNECTION VIA BUS TAP: OVERCURRENT PROTECTION (SWITCHING DEVICE AND MEANS OF DISCONNECT) MUST BE LOCATED PER NEC 240.21
 - A. THE CONDUCTORS SHALL BE CRIMPED WITH A CRIMP-ON TERMINAL LUG, MANUFACTURED BY ILSCO, BURNED, OAE. THE TERMINAL LUG SHALL HAVE IDENTIFICATION OR COLOR CODING TO MATCH THE CONDUCTOR SIZE. TERMINAL LUGS SHALL HAVE LONG BARRELS TO PROVIDE 2 CRIMPS PER TERMINAL LUG PER CONDUIT.
 - B. CRIMPED TERMINAL LUGS SHALL BE CONSTRUCTED OF PURE COPPER AND TIN PLATED FOR HIGH CONDUCTIVITY AND RATED FOR 600V AT 90 DEGREES CELSIUS.
- C. THE CRIMP MUST BE MADE WITH THE MANUFACTURER'S APPROVED TOOL DEVICE TO ACHIEVE THE PROPER CRIMP CONNECTION.
- D. USE STAINLESS STEEL HARDWARE WITH THE FASTENER TORQUED TO MANUFACTURER'S RECOMMENDATIONS ON ALL THREE PHASES TO COMPLY WITH ARTICLE 110.14 OF THE 2016 NEC.
- E. MINIMUM BEND RADIUS SHALL BE OBSERVED TO MAINTAIN GOOD CONDUCTOR QUALITY AND WIRE MANAGEMENT IN THE LOAD CENTER OR TRANSFORMER. IF THIS BEND RADIUS IS TOO CONSTRICTED, USE A 90 DEGREE CRIMP-ON LUG MANUFACTURED BY ILSCO. BURNED, OAE. THE CRIMPING TOOL MUST BE USED TO EXCEEDS THE CONDUCTOR'S INSULATION IT IS BEING USED WITH. IT IS RECOMMENDED THAT ACCEPTABLE CLEARANCES ARE MAINTAINED WITH THIS BUS TAP FOR SAFE, CONTINUOUS OPERATION.
- F. FOLLOW MANUFACTURER'S GUIDELINES (OR, IF APPLICABLE, AHJ, FOR MODIFICATION OF BUS BARS).
- E16. ALL CONDUITS SHALL BE FREE OF ANY OBSTRUCTIONS AND PROPERLY SECURED BEFORE WIRE IS PULLED.
- E17. ELECTRICAL CONTRACTOR TO PROVIDE STORAGE FOR EXCESS CONDUIT. CONDUIT RUNS IN AC DISCONNECTS, SUB PANELS, AND MAIN SERVICES PER NEC ARTICLE 690.
- E18. MEGGER TESTING: MEGGER (INSULATION) TEST ALL CONDUITS UNDER TEST AND GROUND WIRE CONDUCTOR TEST AFTER WIRE IS PULLED THROUGH THE MODULES, BUT BEFORE TERMINATING TO THE MODULES. COMBINERS, DISCONNECTS OR INVERTERS. **DO NOT MEGGER THE SOLAR MODULES, AS THIS WILL LIKELY DAMAGE THEIR INTERNAL DIODES.**
- MEGGER IS INTENDED FOR ALL CONDUCTORS INSTALLED BY THE ELECTRICAL CONTRACTOR.**
- E19. ALL UNDERGROUND ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE UTILITY PROVIDING SERVICE.
- E20. ALL UNDERGROUND ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE UTILITY PROVIDING SERVICE.
- E21. REFER TO THE MODULE MANUAL FOR MORE DETAILS ON RIGGING, UNPACKING, HANDLING, PLANNING, AND INSTALLATION.
- E22. THE MODULES MAY BE SHIPPED WITH SEVERAL MODULES PER BOX TAKE CARE WHEN OPENING THE BOX TO ENSURE THAT ALL MODULES ARE SECURELY HANDLED.
- E23. NEVER LEAVE A MODULE UNSUPPORTED OR UNSECURED. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL HANDLING ON THE JOBSITE.
- SOLAR ARRAY COMMISSIONING:**
- C1. BEFORE CLOSING DISCONNECTS OR ATTEMPTING TO ENERGIZE THE INVERTERS, THE FOLLOWING COMMISSIONING PROCEDURE SHALL BE COMPLETED:
 - A. CHECK THE OPEN CIRCUIT VOLTAGE (VOC) AND CURRENT (ISC) FOR EACH SOURCE CIRCUIT.
 - B. CHECK THE SHORT CIRCUIT CURRENT (SCC) RECORD THE VALUES ON THE COMMISSIONING RECORD DOCUMENTS
 - C. CHECK THE SHORT CIRCUIT CURRENT (SCC) ON EACH SOURCE CIRCUIT RECORD THE VALUES ON THE COMMISSIONING RECORD DOCUMENTS
 - D. CHECK THAT ALL FUSES, DISCONNECTS AND OTHER COMPONENTS ARE RATED FOR THE APPROPRIATE CURRENT CAPACITY.
 - E. COMPLETE A VISUAL INSPECTION OF ALL THE MODULES TO CHECK FOR BROKEN GLASS, FRADED WIRES, EXPOSED CONDUCTORS AND ANY OTHER PROBLEMS THAT MAY CAUSE A FAULT.
 - E24. PRIOR TO INSTALLATION ALL FUSES SHALL BE TESTED FOR CONTINUITY.

ABBREVIATIONS

AC	ALTERNATING CURRENT	INSULATION MEANS. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION OF INSULATING PRODUCT.
APPROX	APPROXIMATE	S17. STRUCTURE FINISH TO BE CONSISTENT WITH 25 YEAR DESIGN LIFE WITH MINIMAL MAINTENANCE. ACCEPTABLE UNSTRUT FINISHES ARE THOSE COATING WITH DEMONSTRATED 25 YEAR LIFE.
AWG	AMERICAN WIRE GAUGE	S18. ANODIZED ALUMINUM, HOT DIPPED GALVANIZED STEEL, AND STAINLESS STEEL ARE ACCEPTABLE MATERIALS. ALL OTHER FINISHES REQUIRE JUSTIFICATION. WITH DETAILS ON MAINTENANCE REQUIREMENT DURING THE 25 YEAR LIFE.
CL	CENTER LINE	S19. ALL FIELD WIRING OR CUT SURFACES REQUIRE FIELD TOUCH-UP TO MAINTAIN FINISH COATING. CUT GALVANIZED/ZINC COVERED SURFACES SHALL BE GALVANIZED/ZINC COATED ZINC PRODUCT APPLIED IN AN APPROVED MANNER.
CB	COMBINER BOX	S20. ALL WELDING TO BE COMPLETED BY WELDERS BEING CERTIFIED IN THE TYPE OF WELDING BEING COMPLETED.
DC	DIRECT CURRENT	S21. ALL ELECTRICAL WORK TO BE COMPLETED BY QUALIFIED ELECTRICAL PERSONNEL UNDER THE DIRECT SUPERVISION OF A QUALIFIED ELECTRICIAN OR MASTER ELECTRICIAN, JOURNEYMAN OR MASTER ELECTRICIAN.
DI	DROP INLET	S22. STRUCTURE MUST ALLOW FOR UNRESTRICTED AIRFLOW AROUND MODULES AND THE MODULE FRAME.
DISC	DISCONNECT	S23. PULL/SPICE BOXES SHALL BE LISTED FOR PURPOSE AND INSTALLED IN A WORKMANLIKE MANNER. RATED CONNECTORS SHALL BE USED FOR CONDUCTORS.
EMT	ELECTRICAL METALLIC TUBING	S24. GROUNDING SYSTEM WILL USE LISTED UNDERGROUND CONDUITS, RATED FOR DIRECT BURIAL WHEN EXPOSED TO THE ELEMENTS.
(E)	(EXISTING)	S25. MODULES SHALL BE GROUNDING WITH EQUIPMENT GROUNDING CONDUCTOR USING INSTALLATION MANUAL MECHANICAL CONNECTORS SHALL BE RATED FOR DIRECT BURIAL.
EL	ELEVATION	S26. CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN (7) DAYS BEFORE LOADING. UNLESS THE RESPONSIBLE CHARGE ENGINEER CERTIFIES LOADING BEFORE INITIAL CURE, OR SPECIFIES A LONGER CURE TIME.
EQ	EQUAL	S27. TOP ENTRY CONDUITS WILL BE ROUTED SO WATER BUILDUP DOES NOT FALL ON ELECTRICAL/ELECTRONIC EQUIPMENT.
ID	INSIDE DIAMETER	S28. ALL CONDUIT ENTRY AND EXITS FROM ENCLOSURES SHALL BE SEALED WITH MATERIAL LISTED FOR PURPOSE SUCH AS FIRE STOP OR DUCT SEAL.
JB	JUNCTION BOX	S29. FIELD ASSEMBLY OF MC CABLES WILL BE EXECUTED BY CERTIFIED PERSONNEL ACCORDING TO MANUFACTURER'S GUIDELINES.
MCB	MAIN COMBINER BOX	S30. OTHER NEARBY UTILITY SERVICES WILL BE SECURED BEYOND THE BOUNDARY OF THE MODULES OR SUPPORT STRUCTURE AS REQUIRED BY APPLICABLE CODES). A MINIMUM CLEARANCE OF 7.5CM (3") IS REQUIRED WITH APPROVAL OF THE ENGINEER.
MFR	MANUFACTURER	S31. CIRCUIT COMBINERS SHALL BE LISTED TO UL 1741 AND APPROPRIATE FOR THE INSTALLATION DESIGN AND LOCATION
MIN	MINIMUM	S32. PER NEC STANDARD COLORS FOR WIRE SHALL BE USED. WHITE FOR THE GROUNDING CONDUCTOR, GREEN FOR EQUIPMENT GROUND, AND ALL OTHER COLORS NEEDED FOR PHASING.
MISC	MISCELLANEOUS	
(N)	(NEW)	
OAE	OR APPROVED EQUAL	
OC	ON CENTER	
OD	OUTSIDE DIAMETER	
POCC	POINT OF COMMON COUPLING	
PV	PHOTOVOLTAIC	
PL	PROPERTY LINE	
SD	STORM DRAIN	
SF	SQUARE FOOT/FEET	
SIM	SIMILAR	
TBD	TO BE DETERMINED	
TOF	TOP OF FOOTING	
TYP	TYPICAL	
UON	UNLESS OTHERWISE NOTED	
VIF	VERIFY IN FIELD	
XFMR	TRANSFORMER	



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Notes

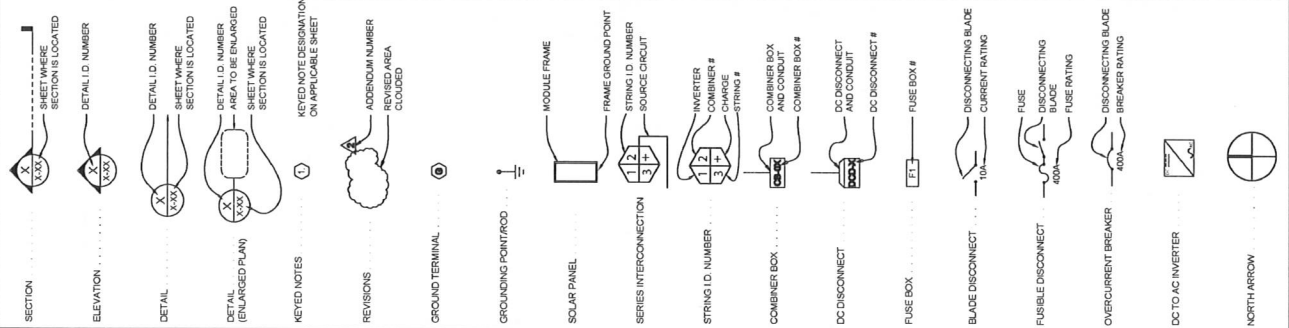
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Crescent City
Harbor District
Phase 1
101 Citizens Dock Rd
Crescent City, CA 95531

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SYMBOLS



NOTES

- ELECTRICAL NOTES:**
- IN EVERY PULL BOX, TERMINAL BOX, AND AT ALL PLACES WHERE WIRES MAY NOT BE READILY IDENTIFIED BY NAME, IDENTIFY EACH CIRCUIT WITH A PLASTIC LABEL OR TAG FOR NUMBER, POLARITY OF PHASE AND/OR VOLTAGE.
 - THE LAYOUT OF CONDUIT SHOWN IN THESE PLANS IS INDICATIVE ONLY. CONTRACTOR SHALL ROUTE AND LOCATE THE CONDUITS TO SUIT SITE CONDITIONS BUT SHALL NOT EXCEED THE MAXIMUM CONDUIT LENGTHS IDENTIFIED ON THE WIRE SCHEDULE. CONTRACTOR WILL COORDINATE ALL CHANGES IN WIRING AND CONDUIT WITH THE ENGINEER.
 - BENDS SHALL NOT DAMAGE THE RACEWAY OR SIGNIFICANTLY CHANGE THE INTERNAL DIAMETER OF CONDUITS (NO KINKS).
 - SUPPORT CONDUCTORS IN VERTICAL CONDUITS IN ACCORDANCE WITH REQUIREMENTS IN NEC 300.19
 - INSTALL ALL WIRING MATERIALS IN A NEAT WORKMANLIKE MANNER. USE GOOD TRADE PRACTICE AS REQUIRED BY CHAPTER 3 OF THE NEC AND ANS/NECA 1-2000 STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING.
 - INSTALL CONDUIT TO MAINTAIN PROPER CLEARANCES AND IN A NEAT INCONSPICUOUS MANNER. RUN PARALLEL AND AT RIGHT ANGLES TO STRUCTURAL MEMBERS OR OTHER CONDUITS. PROVIDE BOXES, FITTINGS AND BENDS FOR CHANGES IN DIRECTIONS. PASTE CONDUIT SECURELY IN PLACE. CONDUITS INSULATION IT IS BEING USED WITH IT.
 - PROVIDE PULL, JUNCTION OR CHRISTY BOXES WHERE REQUIRED TO FACILITATE THE INSTALLATION OF CONDUITS. PROVIDE PULL BOXES WHERE CONDUIT BENDS EXCEED THE EQUIVALENT OF FOUR 90 DEGREE BENDS.
 - WHEN FIELD CUTTING IS REQUIRED, THE CONDUIT SHALL BE CUT SQUARE AND DEBURRED.
 - CONDUIT SIZES NOT SPECIFIED SHOULD CONFORM TO NEC SPECIFICATIONS, TO INCLUDE FILL FACTOR AND MINIMUM CONDUIT SIZE BEING 3/4".
 - THE WIRING MINIMUM SIZE SHALL BE #12 AWG.
 - SAFETY REGULATION (LOCK OUT - TAG OUT, ETC.) IS THE FULL RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION.
 - THE WIRING SIZE IS BASED ON THE ESTIMATED CONDUIT ROUTING SHOWN IN THIS DRAWING PACKAGE. SHOULD THE CONDUITS LENGTH INCREASE DUE TO LOCATION OF SOURCE AND/OR ROUTING THE CONDUITS AND THE CONDUITS MAY NEED BE RESIZED. PLEASE CONSULT THE ENGINEER PRIOR TO MAKING ANY FIELD CHANGES.
 - ALL WIRING IN CONDUIT SHALL BE THW-2 FOR 90 DEGREE CELSIUS. USE BARE COPPER FOR 2/0V WIRE OR APPROVED EQUIVALENT SHALL BE USED FOR ALL EXPOSED OR HOMERUN WIRING.
 - FOR INTER CONNECTION VIA BUS TAP: OVERCURRENT PROTECTION (SWITCHING DEVICE AND MEANS OF DISCONNECT) MUST BE LOCATED PER NEC 240.21
 - THE CONDUCTORS SHALL BE CRIMPED WITH A CRIMP-ON TERMINAL LUG, MANUFACTURED BY ILSCO, BURNEDY, OAE. THE TERMINAL LUG SHALL HAVE IDENTIFICATION OR COLOR CODING TO MATCH THE CONDUCTOR SIZE. TERMINAL LUGS SHALL HAVE LONG CONDUIT PROVIDE 2 CRIMPS PER TERMINAL LUG PER CONDUCTOR.
 - CRIMPED TERMINAL LUGS SHALL BE CONSTRUCTED OF PURE COPPER AND TIN PLATED FOR HIGH CONDUCTIVITY AND RATED FOR 600V AT 90 DEGREES CELSIUS.

ABBREVIATIONS

AC	ALTERNATING CURRENT
APPROX	APPROXIMATE
AWG	AMERICAN WIRE GAUGE
CL	CENTER LINE
CB	COMBINER BOX
DC	DIRECT CURRENT
DI	DROP INLET
DISC	DISCONNECT
EMT	ELECTRICAL METALLIC TUBING
(E)	(EXISTING)
EL	ELEVATION
EQ	EQUAL
ID	INSIDE DIAMETER
JB	JUNCTION BOX
MCB	MAIN COMBINER BOX
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
(N)	(NEW)
OAE	OR APPROVED EQUAL
OC	ON CENTER
OD	OUTSIDE DIAMETER
POCC	POINT OF COMMON COUPLING
PV	PHOTOVOLTAIC
PL	PROPERTY LINE
SD	STORM DRAIN
SF	SQUARE FOOT/FEET
SIM	SIMILAR
TBD	TO BE DETERMINED
TOF	TOP OF FOOTING
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
XFMR	TRANSFORMER

- INVERTER COMMISSIONING:**
- THIS CHECKLIST MUST BE COMPLETED BY THE CONTRACTOR PRIOR TO COMMISSIONING:
 - CHECK THAT THE INVERTER IS PROPERLY GROUNDED AS DESCRIBED BY THE MANUFACTURER AND THESE INSTRUCTIONS.
 - CHECK THE INVERTER DC INPUT VOLTAGE (VOC) OF THE SOLAR PANELS FOR PROPER POLARITY INSIDE THE INVERTER CABINET.
 - CHECK DC INPUT VOLTAGE (VOC) IS WITHIN THE RANGE DEFINED BY THE INVERTER RATING LABEL AND ACCOMPANIED MANUAL.
 - CHECK AC INPUT VOLTAGE IS IN THE PROPER PHASE SEQUENCE (CLOCKWISE) IF APPLICABLE.
 - CHECK THAT THE AC GRID VOLTAGE, AT THE POINT OF CONNECTION, IS WITHIN THE VOLTAGE RANGE DEFINED BY THE INVERTER RATING LABEL AND ACCOMPANIED MANUAL.
 - FOLLOW START-UP SEQUENCE IN MANUFACTURER'S OPERATION AND MAINTENANCE MANUAL.
 - VERIFY THAT ALL CONDUCTOR TERMINATION AND FASTENER TORQUE MEET LISTED SPECIFICATIONS.
 - ADDITIONAL SOLAR-360 INSTALLATION STANDARDS**
 - NFPA 70 (NEC) AND IBC, OR LOCAL CODES AS REQUIRED. COMPLIANCE FOR INSTALLATION AND WORKMANSHIP.
 - LABEL EQUIPMENT WITH PERMANENT WEATHERPROOF LABELS COMPLY WITH NEC ART. 690.17, AND 690.53 ESPECIALLY, LABEL UTILITY DISCONNECT AND SOLAR METER.
 - IDENTIFY BOTH ENDS OF WIRES WITH PERMANENT WIRE MARKERS.
 - THE POINT OF CONNECTION SHALL COMPLY WITH NFPA 70 ARTICLE 690.64(B)(2).
 - LIMIT TOTAL VOLTAGE DROP TO LESS THAN 3% INCLUDING ALL DC AND AC CIRCUITS. PROVIDE MECHANICAL CONNECTIONS SHALL BE RATED FOR DIRECT DC AND 1% AC.
 - INSTALLATION OF ALL COMPONENTS COMPLETED IS TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - USE 90°C OR HIGHER WET RATED WIRE FOR ALL EXPOSED WIRING. EXPOSED WIRING DERATINGS FOR TEMPERATURE AND OTHER FACTORS.
 - FUSES AND WIRES BETWEEN TRANSFORMER AND DISCONNECT TO BE RATED FOR THE FULL LOAD CURRENT (OCCURS DAILY DUE TO NIGHT-TIME DISCONNECT).
 - ALL DC MATERIALS (FUSES, EQUIPMENT, CONNECTORS, WIRES, ETC.) TO BE LISTED FOR 60VDC OR 100VDC WHERE APPLICABLE.
 - ALL DISCONNECTS AND COMBINERS TO BE SECURED BEYOND THE BOUNDARY OF THE MODULES OR SUPPORT STRUCTURE AS REQUIRED BY APPLICABLE CODE(S). A MINIMUM CLEARANCE OF 7.5CM (3") IS BEFORE COMMISSIONING.
 - ALL EXPOSED WIRES, SUCH AS MODULE LEADS TO BE SECURED WITH UNRATED PLASTIC OR OTHER APPROVED SUNLIGHT RESISTANT MEANS WITH A 25 YEAR LIFE.
 - ALL EXTERIORS TO BE UV RESISTANT PLASTIC AND ASSEMBLED TO ISOLATE COPPER CONDUCTORS FROM DIRECT CONTACT WITH ALUMINUM COMPONENTS.
 - STRUCTURE AND SYSTEM LAYOUT MUST BE DESIGNED TO PROVIDE EASY ACCESS FOR TROUBLESHOOTING AND MAINTENANCE.
 - NO WIRE NUTS SHALL BE USED IN SYSTEM CONNECTION POINTS.
 - CONNECTORS TO BE TORQUED PER DEVICE LISTING AFTER TREATING THREADS WITH ANTI-OXIDANT OR ANTI-SEIZE. CARMED OUT SET SCREWS SHALL BE REPLACED. REPAIRS TO DRIVE SOCKET HEAD SCREWS ARE RECOMMENDED.
 - SPLIT BOLTS/SPLICES/CONNECTORS SHALL BE INSULATED WITH APPROVED MEANS. UL LISTED ELECTRICAL TAPE ALORE IS NOT SUITABLE AS THE ONLY
- INSULATION MEANS:** FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION OF INSULATING PRODUCTS.
- STRUCTURE FINISH TO BE CONSISTENT WITH 25 YEAR DESIGN LIFE WITH MINIMAL MAINTENANCE. ACCEPTABLE UNFINISHED FINISHES ARE THOSE COATING WITH DEKONSTRATED 25 YEAR LIFE.
 - ANODIZED ALUMINUM, HOT DIPPED GALVANIZED STEEL, AND STAINLESS STEEL ARE REQUIRED MATERIALS. ALL OTHER FINISHES REQUIRE JUSTIFICATION WITH DETAILS ON MAINTENANCE REQUIREMENT DURING THE 25 YEAR LIFE.
 - ALL FIELD WELDS OR CUT SURFACES REQUIRE FIELD TOUCH-UP TO MAINTAIN FINISH COATING. CUT GALVANIZED/ZINC COVERED SURFACES SHALL BE GALVANIZED OR COULD ZINC PRODUCT APPLIED IN AN APPROVED MANNER.
 - ALL WELDING TO BE COMPLETED BY WELDERS QUALIFIED TO WELD THE TYPE OF WELDING BEING COMPLETED.
 - ALL ELECTRICAL WORK TO BE COMPLETED BY QUALIFIED ELECTRICIANS OR APPRENTICES WORKING UNDER THE SUPERVISION OF A LICENSED ELECTRICIAN EQUIVALENT IN EXPERIENCE TO A JOURNEYMAN OR MASTER ELECTRICIAN.
 - STRUCTURE MUST ALLOW FOR UNRESTRICTED AIRFLOW AROUND MODULES AND THE MODULE FRAME.
 - PULLSPRICE BOXES SHALL BE LISTED FOR PURPOSE AND INSTALLED IN A WORKMANLIKE MANNER. DIRECT BURIAL RATED CONNECTORS SHALL BE USED FOR CONDUCTORS.
 - GROUNDING SYSTEM WILL USE LISTED COMPONENTS INCLUDING GROUND RODS; GROUNDING SHALL BE INSTALLED FOR THE ENTIRE PERMANENT BURIAL WHEN EXPOSED TO THE ELEMENTS.
 - MODULES SHALL BE GROUNDING WITH EQUIPMENT GROUNDING CONDUCTOR USING THE LISTED MEANS AS PROVIDED IN THE MODULE INSTALLATION MANUAL. MECHANICAL CONNECTIONS SHALL BE RATED FOR DIRECT BURIAL WHEN EXPOSED TO THE ELEMENTS.
 - CONCRETE SHALL BE CURED FOR A MINIMUM OF 28 DAYS BEFORE LOADING. UNLESS THE RESPONSIBLE CHARGE ENGINEER CERTIFIES LOADING BEFORE INITIAL CURE, OR SPECIFIES A LONGER CURE TIME.
 - TOP ENTRY CONDUITS WILL BE ROUTED SO WATER DOES NOT FALL ON ELECTRICAL/ELECTRONIC EQUIPMENT.
 - ALL CONDUIT ENTRY AND EXITS FROM ENCLAVES WILL BE SEALED WITH MATERIAL LISTED FOR PURPOSE SUCH AS FIRE STOP OR DUCT SEAL.
 - FIELD ASSEMBLY OF MC CABLES WILL BE EXECUTED BY CERTIFIED PERSONNEL ACCORDING TO MANUFACTURER'S GUIDELINES.
 - OTHER NEARBY UTILITY SERVICES WILL BE SECURED BEYOND THE BOUNDARY OF THE MODULES OR SUPPORT STRUCTURE AS REQUIRED BY APPLICABLE CODE(S). A MINIMUM CLEARANCE OF 7.5CM (3") IS BEFORE COMMISSIONING.
 - CIRCUIT COMBINERS SHALL BE LISTED TO UL 1741 AND APPROPRIATE FOR THE INSTALLATION DESIGN AND LOCATION.
 - PER NEC STANDARD COLORS FOR WIRE SHALL BE USED. WHITE FOR THE GROUNDING CONDUCTOR, GREEN FOR EQUIPMENT GROUND, AND ALL OTHER COLORS NEEDED FOR PHASING.

AMERICAN
AMERICAN DEREGISTERED ENERGY
711 W. 11th St. Suite 202
Harbor District, San Francisco, CA 94133
http://www.americanderegistered.com

Consolidated Statement
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AMERICAN DEREGISTERED ENERGY

101 Citizens Dock Rd
Phase 2
Harbor District
Crescent City, CA 95531

Notes
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1/25/2018 9:57:41 AM
To: 04/01/18 2:45:05 pm

MONO

PowerGuard
 PowerGuard Insurance Global Coverage

The power produced from the solar panels is converted into electricity by the inverter. The inverter is the heart of the solar system and is responsible for converting the DC power from the solar panels into AC power that can be used to power your home or business.

19.36%
 Module efficiency

375W
 Module power output

10years
 Material & workmanship warranty

25years
 Linear power output warranty

CSUN375-72MH
 HIGH EFFICIENCY MONO-CRYSTALLINE SILICON SOLAR MODULE

CSUN
 Energy for every

Electrical Characteristics at Standard Test Conditions (STC)

Electrical Characteristics at Normal Operating Cell Temperature (NOCT)

Temperature Coefficients

Material Characteristics

Dimensions

IV-Curves

CSUN375-72MH

TYPE PHOTOVOLTIC / USE-2 / RH / RHV / RHV-2 - COPPER CONDUCTOR - 600V & HV/2V

ENGINEERING SPECIFICATIONS
 Dimensions: 1660mm x 816mm x 35mm (65.4" x 32.1" x 1.4")
 Weight: 11.5kg (25.3lb)
 Maximum Power Output (P_{max}): 375W
 Maximum Power Voltage (V_{mp}): 37.5V
 Maximum Power Current (I_{mp}): 10.0A
 Open Circuit Voltage (V_{oc}): 46.0V
 Short Circuit Current (I_{sc}): 11.5A
 Temperature Coefficient (P_{max}): -0.45%/°C
 Temperature Coefficient (V_{oc}): -0.25%/°C
 Temperature Coefficient (I_{sc}): 0.05%/°C

CONSTRUCTION
 Cell Technology: Monocrystalline Silicon
 Cell Type: PERC
 Cell Efficiency: 19.36%
 Cell Area: 163.1cm²
 Cell Pitch: 156mm x 156mm
 Cell Spacing: 2mm
 Cell Orientation: Vertical
 Cell Color: Blue
 Cell Material: Silicon
 Cell Thickness: 0.2mm
 Cell Weight: 0.5g

APPLICATIONS
 Residential
 Commercial
 Industrial
 Utility
 Marine
 Military

FEATURES
 High efficiency
 Durable
 Low temperature coefficient
 Low self-heating
 Low degradation
 Low LIDC
 Low LIDT
 Low LIDP
 Low LIDM
 Low LIDN
 Low LIDO
 Low LIDR
 Low LIDS
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CSUN375-72MH

CSUN

Electrical Characteristics at Standard Test Conditions (STC)

Electrical Characteristics at Normal Operating Cell Temperature (NOCT)

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CSUN375-72MH

CSUN

Power Optimizer for North America

Power Optimizer for North America
 P730 / P600 / P630

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Three Phase Inverters for the 277/480V Grid for North America

Three Phase Inverters for the 277/480V Grid for North America
 SEIKUS / SERKUS / SE33KUS

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Best choice for SolarEdge enabled systems

Best choice for SolarEdge enabled systems
 SolarEdge Three Phase Inverters for the 277/480V Grid for North America

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Spec Sheet SolarEdge P600 Optimizer

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 P730 / P600 / P630

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AMERICAN OVERSIZED ENERGY

101 Citizens Dock Rd
Harbor District
Phase 3
Crescent City, CA 95531

Single Line

E201

10/27/2018 3:23:53 PM
To: 6466 24269 PAPER

PROJECT TOTAL MODULES
58 SOLAR MODULES
1000 WATT PER MODULE
TOTAL SYSTEM SIZE: 58 KW DC
100% PV SYSTEM
100% PV SYSTEM
100% PV SYSTEM

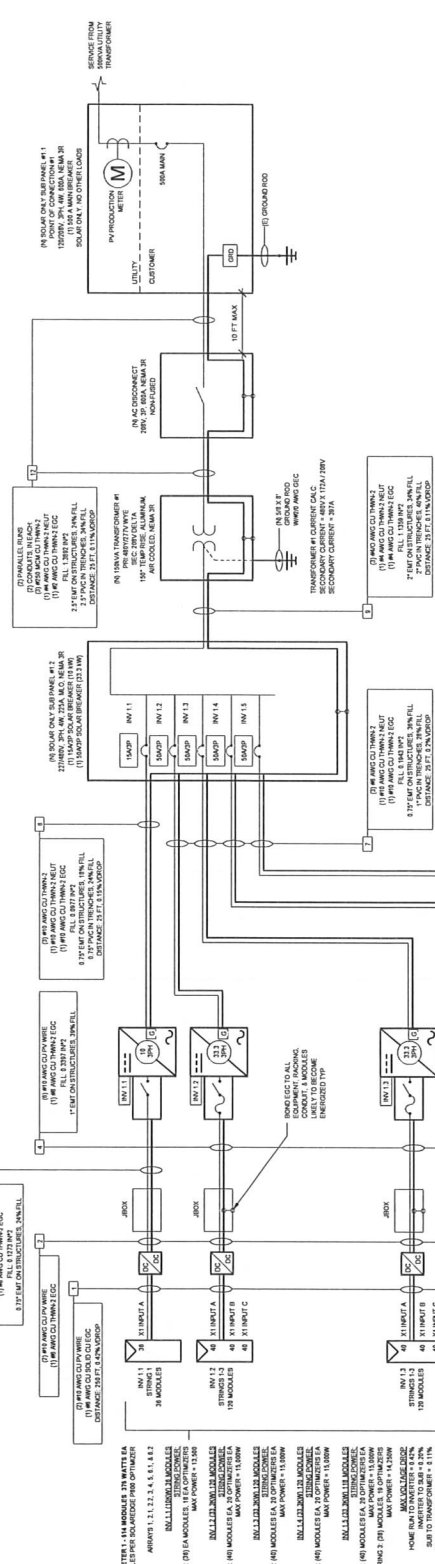
POINT OF CONNECTION #1
TOTAL SYSTEM SIZE: 100 KW DC
100% PV SYSTEM
100% PV SYSTEM
100% PV SYSTEM

POINT OF CONNECTION #2
TOTAL SYSTEM SIZE: 100 KW DC
100% PV SYSTEM
100% PV SYSTEM
100% PV SYSTEM

INVERTER SPEC:
SOLARWISER (3000W PER UNIT)
MAX OUTPUT CURRENT: 10A
MAX OUTPUT POWER: 3000W
MAX EFFICIENCY: 98%
MAX OPTIMIZED STRING POWER: 1500W

WIRE SIZES:
SOLARWISER (3000W PER UNIT)
MAX OUTPUT CURRENT: 10A
MAX OUTPUT POWER: 3000W
MAX EFFICIENCY: 98%
MAX OPTIMIZED STRING POWER: 1500W

SEE SPEC SHEET FOR ELECTRICAL PARAMETERS AND DIMENSIONS.



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AMERICAN OVERSIZED ENERGY

WIRE RATING CHART

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AMERICAN OVERSIZED ENERGY

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Single Line Diagram PVM-2

12" x 17"

