

GENERAL NOTES

- 1.) THE CONNECTION DIAGRAM SHOWN ON THIS SHEET IS A RECOMMENDATION ONLY. THE FINAL SYSTEM CONFIGURATION SHALL BE DETERMINED BY THE ELECTRICIAN INSTALLING THE SOLAR POWER SYSTEM.
- 2.) ALL WIRING NOT PROVIDED WITH THE PRE-ASSEMBLED SOLAR SYSTEM AND ANY UNLABELED WIRES SHOWN IN THIS PLAN SET WILL BE DETERMINED BY ELECTRICIAN AT FINAL SITE.
- 3.) ALL WIRING AND MATERIALS REQUIRED TO INTERCONNECT ITEMS PROVIDED BY SOLARSET SHALL BE SUPPLIED AND INSTALLED BY THE END USER OR THEIR CONTRACTOR (OTHERS).
- 4.) GROUNDING AND BONDING IS SHOWN FOR REFERENCE ONLY. GROUNDING AND BONDING REQUIREMENTS WILL BE DETERMINED ON-SITE AND ARE THE RESPONSIBILITY OF THE ELECTRICIAN INSTALLING THE SOLAR POWER SYSTEM.
- 5.) ALL SOLAR MODULE FRAMES ARE BONDED USING ILSCO SGB-4 SOLAR BOND CLAMPS AND A CONTINUOUS 8 AWG BARE SOLID COPPER WIRE. A LOOSE COIL OF WIRE, EIGHT FEET IN LENGTH, IS PROVIDED AFTER THE LAST SOLAR MODULE BOND CLAMP. IT IS THE RESPONSIBILITY OF THE ELECTRICIAN INSTALLING THE SOLAR POWER SYSTEM TO CONNECT THE SOLAR MODULE BONDING WIRE TO A GROUND ROD. ALL BONDING CLAMPS ARE INSTALLED ON CLEAN BARE METAL USING OX-GARD ANTI-OXIDANT COMPOUND (DEL CITY PART NUMBER 964DL).
- 6.) ALL WIRE SIZES ASSUME A MAXIMUM LENGTH OF 100 FEET OR LESS.
- 7.) WIRE AC-1 IS ONLY PROVIDED WHEN A LOAD CENTER OR OTHER LOAD IS INCLUDED ON THE SOLAR POWER SYSTEM SKID.
- 8.) WIRE UTIL-1 IS ONLY PROVIDED FOR OFF-GRID SYSTEMS WHICH HAVE A BACKUP GENERATOR CONNECTED TO THE GRID INPUT.
- 9.) A CURRENT TRANSFORMER WITH WIRE SEN-1 IS SHIPPED WITH ALL SYSTEMS AND MAY BE INSTALLED ON-SITE BY THE ELECTRICIAN INSTALLING THE SOLAR POWER SYSTEM.
- 10.) WIRES GEN-1 AND REM-1 ARE ONLY PROVIDED WHEN A BACKUP GENERATOR IS MOUNTED ON THE SOLAR POWER SYSTEM SKID.
- 11.) FIVE EG4, LIFEPOWERA V2 BATTERIES ARE INCLUDED WITH AN EG4, 18KPV-12LV INVERTER.

The diagram illustrates the electrical connections for the SOLARSET CA-005 system. It includes the following components and connections:

- PV Modules:** Two strings of 4 modules each, labeled "2 STRINGS OF 4 MODULES" and "OCELLS, QTRON XL-G2.3/BFG 630W MODULES". They are connected to the PV INPUT terminals (PV1+, PV1-, PV2+, PV2-, PV3+, PV3-) via PV-2 connectors.
- Battery Bank:** Two banks of SOK, SK48V100N OR EG4, LIFEPOWER4 V2 batteries. Each bank has positive and negative terminals connected to the BATTERY terminals (BAT+, BAT-) via BAT-3 connectors. They also include RS485, CAN, and RJ-45 communication lines.
- System Components:**
 - COMM-1:** Connected to the BMS 485 / CAN RJ-45 terminal.
 - GROUND-1:** Connected to the GND-1 terminal and the negative terminal of the battery banks.
 - TO SKID GROUND:** Connections for the negative terminal of the battery banks and the GND-1 terminal.
 - LOAD:** Connected to the LOAD terminals (L1, L2, N, GROUND) via AC-3 connectors.
 - GRID:** Connected to the GRID terminals (L1, L2, N, GROUND) via UTIL-3 connectors, leading to the UTILITY GRID.
 - CURRENT XFMRs:** Connected to the CN1-3 CT, CN1-4 CT, CN1-5 CT, and CN1-6 CT terminals via SEN-2 connectors, leading to the FROM CURRENT TRANSFORMERS.
 - GEN:** Connected to the GEN terminals (L1, L2, N, GROUND) via GEN-3 connectors, leading to the FROM BACKUP GENERATOR.
 - DRY CONTACT:** Connected to the CN2-1 and CN2-2 terminals via REM-1 connectors, leading to the TO BACKUP GENERATOR.
 - MODBUS:** Connected to the RJ-45, METER-485, and RJ-45 terminals.
 - E-STOP:** Connected to the RSD1-1 B and RSD1-2 B terminals.

Additional labels include "SOL-ARK, 12K-2P-LL OR EG4, 18KPV-12LV" and "VEVOR, YD-20A/30A/50A". A note states: "NOTE: NOT INCLUDED WITH THE 008-C-HYS MODEL."

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DRAWING TITLE	OFF-GRID OR HYBRID SOLAR SYSTEM, 008-C-0G-S OR 008-C-HYS ONE LINE DIAGRAM
WORK ORDER	81XXX
CUSTOMER	CUSTOMER
DRAWING NUMBER	STD1-700-7