

ARRAY SPECIFICATIONS
4.80kW
(16) HYUNDAI 300 WATT
PV MODULES
2 STRINGS OF 8 MODULES

MDDULE SPECIFICATIONS
MFG: HYUNDAI
MIDEL: HID-S300RG(BK)
VIC: 40.0 Volc
VMP: 32.5 Volc
ISC: 9.80 A
INP. 9.30 A
eVOC: -0.31%/\*C

INVERTER SPECIFICATIONS
MFG PRIMO

MTGE PRIMO MODEL: PRIMO 5.0-1 OUTPUT: 5.0 kV VOLTAGE: 240 V AMPS: 20.8 A CONTINUOUS CURRENT: 26,00 A

EQUIPMENT SCHEDULE
() (16) HYUNDAI HID-S300RG(BK) SOLAR
MODULES.

② FRONIUS PRIMO 5.0-1, SINGLE PHASE GRID-TIE INVERTER, 240VAC OUTPUT, WITH INTEGRATED DC DISCONNECT. AND ARC FAULT PROTECTION. UL 1741 AND IEEE 1547 COMPLAINT.

(3) PROVIDE A 2-PCLE 30A, 240VAC OUTDOOR, NEMA 3R SERMCE RATED DISCONNECT. PHOTOVOLTAIC DISCONNECT SHALL BE VISIBLE, READLY ACCESSIBLE, LOCKABLE, LABELED "PHOTOVOLTAIC AC DISCONNECT" AT GROUND MOUNT.

④ PROVIDE A 2-POLE 30A, 240VAC OUTDOOR, NEMA 3R SERVICE RATED DISCONNECT. PHOTOVOLTAIC DISCONNECT SHALL BE VISIBLE, READILY ACCESSIBLE, LOCKABLE, LABBLED "PHOTOVOLTAIC UTILITY AC DISCONNECT" WITHIN 10 FEET OF ELECTRICAL METER.

(5) PROVIDE A 2-POLE 30A CIRCUIT BREAKER IN EXISTING 240V AC MAIN ELECTRICAL PANEL WITH 200A MAIN BREAKER AND 200A BUSS.

EEEDER SCHEDULE ① PROVIDE 2 #10 AWG(+), 2 #10 AWG (-) PV WIRE IN 3/4" C (~30").

PROVIDE A #6 AWG BARE GROUND.

@PROVIDE 3 #10 AWG THWN, 1 #10 AWG (G) IN A 1/2" C (~5").

②PROVIDE 3 #10 AWG THWN, 1 #10 AWG (G) IN A 1/2" PVC C (~75").

POWER SQURCE CALCULATIONS
DPERATING CURRENT;
9.30 A × 2 × 1.25 = 23.25 A
DPERATING VOLTAGE;
32.5 V × 8 × 1.17 = 304.20 V
MAXIMUM VDLTAGE;
40.0 V × 8 × 1.17 = 374.40 V
SHORT CIRCUIT CURRENT;
9.60 A × 2 × 1.25 = 24.00 A

GENERAL NOTES

(1) MINIMUM PERMANENT SIGNAGE (YELLOW PLACARD, BLACK LETTERING):

(A) ON COVER OF VISIBLE UTILITY DISCONNECT - "PHOTOVOLTAIC SYSTEM DISCONNECT"

(B) ON FRONT COVER OF MAIN SERVICE PANEL "WARNING: THIS PANEL ALSO FED BY SOLAR ELECTRIC SOURCE."

(2) SIGNAGE OTHER THAN THAT GIVEN IN (1) ABOVE MAY BE REQUIRED

(3) PV MODULES, STRING COMBINERS, GFI, DC DISCONNECT, INVERTER, AC DISCONNECT, AND UTILITY DISCONNECT ARE UL-LISTED.

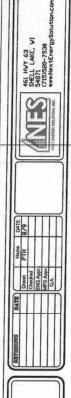
(4) ALL GROUND SYSTEMS ARE BONDED TOGETHER.

(5) INTERCONNECTION WILL BE PER LOCAL UTILITY REQUIREMENTS (DOUBLE-POLE CB OR LINE SIDE TAP).

(6) SYSTEM CANNOT BE TESTED ON LINE UNTIL APPROVED BY UTILITY.

(7) THE PHOTOVOLTAIC SYSTEM WIL BE INSTALLED IN COMPLIANCE WITH ARTICLE 690 OF THE 2014 NEC.

(8) ALL WIRES MUST BE COPPER AND SIZED FOR A MAXIMUM 2.0% VOLTAGE DROP.



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